



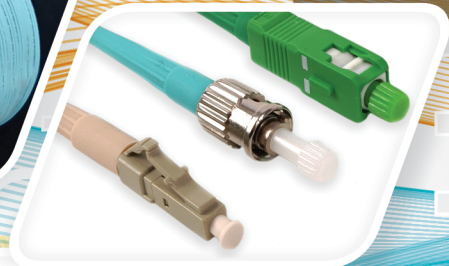
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2014 Communication Fiber Optics Product Catalog

37TH EDITION

Cabling

Connectors



Test Equipment



Interconnect Boxes

Passive Fiber Optic Networks Made Easy for the Contractor

Passive Network

=

Cabling

+

Connectors

+

Interconnect Boxes

A COMPLETE LINE OF ESSENTIAL EQUIPMENT FOR INSTALLATION PROFESSIONALS

MOST ITEMS SHIP SAME DAY FROM OUR GIANT \$10 MILLION INVENTORY



Fiber Instrument Sales

800-5000-FIS(347)

www.fiberinstrumentsales.com



President's Message

I have always recognized the value of "working smarter" and I am happy to provide our customers with the tools they need to work efficiently. By "tools" I am referring to the products we sell as well as the information resources we provide. These include:

Communicator - More than a monthly newsletter, *Communicator* has evolved into an educational tool that explains complex topics such as Data Centers and PONs. Centerfold "Product Maps" show where FIS products fit within network architecture, providing a useful tool for matching products to job specs.

WaveLengths Magazine - Readership of our quarterly magazine continues to grow. Contractors and technicians rely on *WaveLengths* for technology news and insights not available in any other industry publication. *WaveLengths* is provided free to all FIS customers.

Website Enhancements - In order to accommodate our expanding product line, we have redesigned our website to provide easier navigation and faster access to products in our online catalog.

Product Improvements - To provide you with exceptional value, we continue to expand and improve upon our line of FIS-manufactured products. These include FIS rack mounts to which new features have been added.

Thank you for your business and referrals. Your continued support enables us to further improve the products and services that FIS makes available to you.

Frank Giotto



**Need to save money,
service your equipment?**

**Turn to Page 4 for
Rentals/Services**



**A better understanding
of fiber optics?**

**Turn to Page 164 for
Fiber Optic Training**

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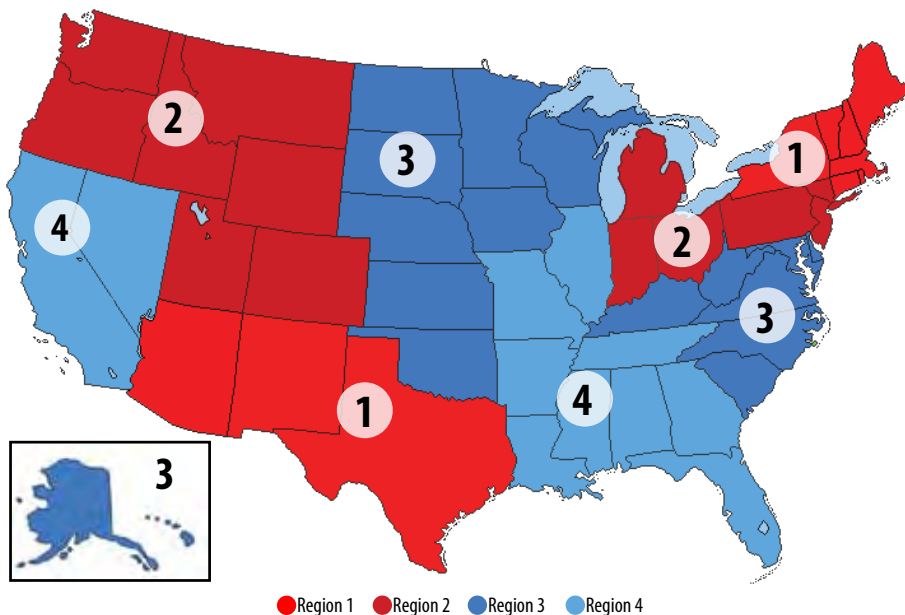
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Continuing to be Your **Fiber-Optic Information Source**

Website

www.fiberinstrumentsales.com



**Shop 24/7
Online**

In addition to online shopping, the FIS website offers a wealth of information to make your job easier and more productive. Spec sheets, white papers, training videos, Communicator Newsletter and WaveLengths Magazine – all are all accessible online.



Live Tech Help

Our tech support engineers and technicians are available by phone as well as online, via our website. You can even access our President and CEO, Frank Giotto. Just click on the link, "Ask the President."



Tutorial Videos

Fusion splicing, fiber termination and network testing are just a few of the informative FIS videos available to you. Videos can be accessed through the FIS Website and via WaveLengths Online Magazine. Clear and concise, FIS tutorial videos are the next best thing to receiving classroom training.



NFOC-NETS Conference

www.nfoc-nets.com

The NFOC-NETS Communications Conference provides telecom and datacom professionals with the opportunity to attend educational sessions presented by industry experts. These sessions address new fiber optic technologies and applications as well as the business opportunities they present. Dozens of the world's top companies exhibit their products at the NFOC each year.



WaveLengths Magazine

www.wavelengthsmagazine.com

Upbeat and informative, WaveLengths Magazine provides you with a broad understanding of topics relating to the Telecom and Datacom industries. Coverage includes new technology, industry trends, network installation, testing and more. If you work with fiber optics, copper or wireless technologies, Wavelengths is the magazine for you. Our full-color Print Edition is approximately 40 pages in length. Our Online Edition has additional content including audio, video, and interactive features (wavelengthsmagazine.com). Both editions are available FREE to FIS customers!



Communicator Newsletter

This eight-month publication is a great tool for helping you make informed purchase decisions. For example, various issues of Communicator have provided guidance in selecting the right fusion splicer, OTDR, splice closure and more. Refer to these Communicator "buying guides" when making important purchase decisions. All issues are available in the Communicator Archives on the FIS website.



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Call 1.800.5000.FIS (347)
Ask For Our Rental Department!



EXFO FTB 200v2



EXFO FTB 1



EXFO AXS 110



ANRITSU MT9083



MT9090C



NOYES M210

OTDR RENTAL RATES

Choice of adapter and launch cable, if required

DUAL WAVELENGTH

850/1300nm or 1310/1550nm

FIS DELUXE (MM ONLY)

1 Week	\$475.00
2 Weeks	675.00
4 Weeks	875.00

ANRITSU MT9083A

1 Week	\$600.00
2 Week	800.00
4 Weeks	1,025.00

EXFO AXS 110/Anritsu MT9090C

1 Week	\$575.00
2 Weeks	775.00
4 Weeks	975.00

EXFO FTB 200

1 Week	\$600.00
2 Week	800.00
4 Weeks	1,025.00

QUAD WAVELENGTH

850/1300/1310/1550nm

EXFO FTB 200v2/ FTB 1

1 Week	\$750.00
2 Weeks	925.00
4 Weeks	1,250.00

ANRITSU MT9083A

1 Week	\$750.00
2 Week	925.00
4 Weeks	1,250.00

FIS DELUXE / EXFO AXS 110

1 Week	\$575.00
2 Weeks	775.00
4 Weeks	975.00

NOYES M210

1 Week	\$685.00
2 Week	785.00
4 Weeks	935.00

CERTIFICATION KITS



C860 Kit

NOYES C860 QUAD CERTIFICATION TESTERS

1 Week	\$1,255.00
2 Weeks	1,485.00
4 Weeks	1,925.00



C880 Kit

NOYES C880 QUAD CERTIFICATION TESTERS

1 Week	\$750.00
2 Week	925.00
4 Weeks	1,250.00

Anritsu Fiber Visualizer



Anritsu rental equipment will be upgraded to include the Anritsu Fiber Visualizer software. Users will be able to see the trace as a graph and toggle to an icon format including distance and loss at each event. Formatting reports and printing trace will be easy. Traces will be saved and downloaded in PDF format eliminating the need for special software on your computer.

FUSION SPLICER RENTAL RATES

Includes cleaver, 1 spare set of electrodes, battery and charge cord



V-GROOVE

FITEL S123C

1 Week	\$395.00
2 Weeks	495.00
4 Weeks	625.00

Cheetah SOC Compatible

FITEL S153C

1 Week	\$595.00
2 Weeks	800.00
4 Weeks	1,025.00

Cheetah SOC Compatible

MASS FUSION SPLICER

AFL FSM-60R / AFL FSM - 70R

1 Week	\$1,225.00
2 Weeks	1,485.00
4 Weeks	1,925.00

CORE ALIGNMENT

FIS SUPER COUGAR SPLICER

1 Week	\$595.00
2 Weeks	800.00
4 Weeks	1,025.00

FITEL S178A

1 Week	\$1,025.00
2 Weeks	1,255.00
4 Weeks	1,695.00

Cheetah SOC Compatible

AFL FSM-60S / AFL FSM - 70S

1 Week	\$1,025.00
2 Weeks	1,255.00
4 Weeks	1,695.00

Cheetah SOC Compatible, AFL FuseConnect Compatible

LYNX CLEAVER

Weekly	\$50.00
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F1-LYNX

SPLICE-ON OVEN / 3mm CURING STATION

1 Week	\$30.00
2 Weeks	50.00
4 Weeks	80.00



F1-9777

FIS PROTECTION SLEEVE OVEN

1 Week	\$30.00
2 Weeks	50.00
4 Weeks	80.00



F1-SOC-OVEN

HAND HELD RATES

EXFO 500/600

PM and LS	Singlemode or Multimode Downloadable Power Meter	1 Week	\$175.00
		2 Weeks	235.00
		4 Weeks	295.00

EXFO

MaxTester (pair)	Singlemode	1 Week	\$695.00
		2 Weeks	850.00
		4 Weeks	1,150.00

AFL SMLP5-5

PM and LS	Singlemode or Multimode Downloadable Power Meter	1 Week	\$175.00
		2 Weeks	235.00
		4 Weeks	295.00

FLUKE NETWORKS

DTX-1800120	Copper Cable Analyzer	1 Week	\$425.00
		2 Weeks	550.00
		4 Weeks	695.00



AFL/NOYES PM and LS



EXFO FOT-930 Max Tester



Fluke DTX-1800

PICK-A-PAYMENT FINANCING

Looking for an alternative method to pay for your FIS equipment? Fiber Instrument Sales, Inc. can arrange to offer you a \$1.00 buyout lease. You can acquire the equipment you need now and then pay for it over time.



OVX-1315-TLS



FTB-200v2



SFP-550S



FSM-70S
Fusion Splicer

EQUIP. COST	12 MOS.	24 MOS.	36 MOS.	48 MOS.	60 MOS.	72 MOS.
\$1,000	\$101.20	\$52.40	\$37.10	\$29.90	\$26.30	N/A
\$5,000	\$506.00	\$262.00	\$185.50	\$149.50	\$131.50	N/A
\$10,000	\$957.00	\$503.00	\$344.00	\$278.00	\$236.00	N/A
\$20,000	\$1,908.00	\$956.00	\$666.00	\$460.00	\$460.00	N/A
\$35,000	\$3,307.00	\$1,659.00	\$1,144.50	\$770.00	\$770.00	\$679.00

Estimated payments shown are for companies in business 2 years or more. Documentation fee of up to \$20 required. For transactions over \$100,000, please call for rates. Payments shown are subject to state and local taxes. Subject to credit approval.

FIS NEW-TO-YOU PROGRAM

Saves You Money!

Fiber Instrument Sales can save you money by providing a selection of pre-owned test and splicer equipment. We have demo models, overstock items, rental inventory, and an occasional trade-in all available at 20% to 60% off the original price.

Contact your FIS sales representative for more information on New-2-You products. You may also contact FIS Services at 800-500-0347 extension 2114 and 2151; or at the Rentals/N2Y Users email address at: rentals@fissales.com.





Stay compliant with industry standards by taking advantage of our full service calibration lab. All equipment is inspected, calibrated to NIST traceable standards, and verified to be in conformance with the manufacturer's specifications. All calibration services include a calibration / verification certificate. Turn around time is typically 10 days for standard services. All calibration services include a NIST traceable calibration certificate. Units are available to rent for extended service or repairs.

Call 1.800.5000.FIS (347) to Speak with a Calibration Representative

OTDR VERIFICATION - SERVICE FEATURES

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration and/or verification services include a NIST traceable calibration certificate

BRAND	PRICE
FIS	\$300.00
EXFO	350.00
AFL/NOYES	300.00
Anritsu	500.00
Platform OTDR and 1 Module	850.00
Additional Modules (Price Each)	350.00
Other Models - call for pricing	

POWER METER AND LIGHT SOURCES - SERVICE FEATURES

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration and/or verification services include a NIST traceable calibration certificate

BRAND	PRICE
FIS	\$75.00
EXFO	100.00
AFL/NOYES	150.00
Anritsu	150.00



FIRECAT

TEST SET KIT VERIFICATION - SERVICE FEATURES

- NIST traceable calibration
- Verification of conformance with the manufacturer's specification
- Ensure correct operation and performance
- All calibration and/or verification services include a NIST traceable calibration certificate

BRAND	PRICE
FIS	\$140.00
EXFO	200.00
AFL/NOYES	300.00
Anritsu	300.00



Power Meter and Light Source

FUSION SPLICER MAINTENANCE

- Replace Electrodes
- Clean Optical Components
- Detailed Cleaning
- Diagnostic and Performance Tests
- Splicer Maintenance and Evaluation

\$250.00



CLEAVER MAINTENANCE

- Blade Adjustment
- Adjust Blade Height
- Verify Proper Performance
- Cleaver Maintenance and Evaluation
- Replacement Blade*

\$150.00

• Without Replacement Blade \$75.00



*Subject to Program Availability



3mm ST-ST UPC SIMPLEX

PART #	LENGTH	PRICE
S388S1FISC	1 Meter	\$7.50
S388S2FISC	2 Meters	7.80
S388S3FISC	3 Meters	8.10
S388S5FISC	5 Meters	8.70
S388S10FISC	10 Meters	10.20



3mm ST-SC UPC SIMPLEX

PART #	LENGTH	PRICE
S38YS1FISC	1 Meter	\$7.50
S38YS2FISC	2 Meters	7.80
S38YS3FISC	3 Meters	8.10
S38YS5FISC	5 Meters	8.70
S38YS10FISC	10 Meters	10.20



3mm SC-SC UPC SIMPLEX

PART #	LENGTH	PRICE
S3YYS1FISC	1 Meter	\$7.50
S3YYS2FISC	2 Meters	7.80
S3YYS3FISC	3 Meters	8.10
S3YYS5FISC	5 Meters	8.70
S3YYS10FISC	10 Meters	10.20



1.6mm LC-LC UPC SIMPLEX

PART #	LENGTH	PRICE
Y3LLS1FISC	1 Meter	\$10.75
Y3LLS2FISC	2 Meters	11.05
Y3LLS3FISC	3 Meters	11.35
Y3LLS5FISC	5 Meters	11.95
Y3LLS10FISC	10 Meters	13.45



1.6mm LC-SC UPC SIMPLEX

PART #	LENGTH	PRICE
Y3LYS1FISC	1 Meter	\$10.75
Y3LYS2FISC	2 Meters	11.05
Y3LYS3FISC	3 Meters	11.35
Y3LYS5FISC	5 Meters	11.95
Y3LYS10FISC	10 Meters	13.45



3mm FC-FC UPC SIMPLEX

PART #	LENGTH	PRICE
S377S1FISC	1 Meter	\$7.50
S377S2FISC	2 Meters	7.80
S377S3FISC	3 Meters	8.10
S377S5FISC	5 Meters	8.70
S377S10FISC	10 Meters	10.20



1.6mm LC-SC UPC DUPLEX

PART #	LENGTH	PRICE
X3LYS1FISC	1 Meter	\$16.25
X3LYS2FISC	2 Meters	16.65
X3LYS3FISC	3 Meters	17.05
X3LYS5FISC	5 Meters	17.85
X3LYS10FISC	10 Meters	19.85



1.6mm LC-LC UPC DUPLEX

PART #	LENGTH	PRICE
X3LLS1FISC	1 Meter	\$16.25
X3LLS2FISC	2 Meters	16.65
X3LLS3FISC	3 Meters	17.05
X3LLS5FISC	5 Meters	17.85
X3LLS10FISC	10 Meters	19.85



3mm SC-SC UPC DUPLEX

PART #	LENGTH	PRICE
D3YYS1FISC	1 Meter	\$14.95
D3YYS2FISC	2 Meters	15.35
D3YYS3FISC	3 Meters	15.75
D3YYS5FISC	5 Meters	16.55
D3YYS10FISC	10 Meters	18.55



3mm ST-ST UPC DUPLEX

PART #	LENGTH	PRICE
D388S1FISC	1 Meter	\$14.95
D388S2FISC	2 Meters	15.35
D388S3FISC	3 Meters	15.75
D388S5FISC	5 Meters	16.55
D388S10FISC	10 Meters	18.55



3mm ST-SC UPC DUPLEX

PART #	LENGTH	PRICE
D38YS1FISC	1 Meter	\$14.95
D38YS2FISC	2 Meters	15.35
D38YS3FISC	3 Meters	15.75
D38YS5FISC	5 Meters	16.55
D38YS10FISC	10 Meters	18.55



3mm FC-FC UPC DUPLEX

PART #	LENGTH	PRICE
D377S1FISC	1 Meter	\$14.95
D377S2FISC	2 Meters	15.35
D377S3FISC	3 Meters	15.75
D377S5FISC	5 Meters	16.55
D377S10FISC	10 Meters	18.55



1.6mm LC-LC APC SIMPLEX

PART #	LENGTH	PRICE
Y3LALAS1FISC	1 Meter	\$12.95
Y3LALAS2FISC	2 Meters	13.25
Y3LALAS3FISC	3 Meters	13.55
Y3LALAS5FISC	5 Meters	14.15
Y3LALAS10FISC	10 Meters	15.65



3mm SC-SC APC SIMPLEX

PART #	LENGTH	PRICE
S3YAYAS1FISC	1 Meter	\$10.95
S3YAYAS2FISC	2 Meters	11.25
S3YAYAS3FISC	3 Meters	11.55
S3YAYAS5FISC	5 Meters	12.15
S3YAYAS10FISC	10 Meters	13.65



3mm FC-SC APC SIMPLEX

PART #	LENGTH	PRICE
S37AYAS1FISC	1 Meter	\$10.95
S37AYAS2FISC	2 Meters	11.25
S37AYAS3FISC	3 Meters	11.55
S37AYAS5FISC	5 Meters	12.15
S37AYAS10FISC	10 Meters	13.65



1.6mm LC-LC APC DUPLEX

PART #	LENGTH	PRICE
X3LALAS1FISC	1 Meter	\$17.95
X3LALAS2FISC	2 Meters	18.35
X3LALAS3FISC	3 Meters	18.75
X3LALAS5FISC	5 Meters	19.55
X3LALAS10FISC	10 Meters	21.55



3mm SC-SC APC DUPLEX

PART #	LENGTH	PRICE
D3YAYAS1FISC	1 Meter	\$16.95
D3YAYAS2FISC	2 Meters	17.35
D3YAYAS3FISC	3 Meters	17.75
D3YAYAS5FISC	5 Meters	18.55
D3YAYAS10FISC	10 Meters	20.55



3mm FC-SC APC DUPLEX

PART #	LENGTH	PRICE
D37AYAS1FISC	1 Meter	\$16.95
D37AYAS2FISC	2 Meters	17.35
D37AYAS3FISC	3 Meters	17.75
D37AYAS5FISC	5 Meters	18.55
D37AYAS10FISC	10 Meters	20.55

CLEARCURVE® XB BEND-INSENSITIVE BLUE JACKET PATCH CABLE



3mm ST-SC UPC SIMPLEX

PART #	LENGTH	PRICE
S98YS1FISCB	1 Meter	\$8.00
S98YS2FISCB	2 Meters	8.30
S98YS3FISCB	3 Meters	8.60
S98YS5FISCB	5 Meters	9.20
S98YS10FISCB	10 Meters	10.70



1.6mm LC-SC UPC SIMPLEX

PART #	LENGTH	PRICE
Y9LYS1FISCB	1 Meter	\$10.95
Y9LYS2FISCB	2 Meters	11.25
Y9LYS3FISCB	3 Meters	11.55
Y9LYS5FISCB	5 Meters	12.15
Y9LYS10FISCB	10 Meters	13.65



1.6mm LC-LC APC SIMPLEX

PART #	LENGTH	PRICE
Y9LALAS1FISCB	1 Meter	\$13.25
Y9LALAS2FISCB	2 Meters	13.55
Y9LALAS3FISCB	3 Meters	13.85
Y9LALAS5FISCB	5 Meters	14.45
Y9LALAS10FISCB	10 Meters	15.95



3mm SC-SC UPC DUPLEX

PART #	LENGTH	PRICE
D9YYS1FISCB	1 Meter	\$15.25
D9YYS2FISCB	2 Meters	15.60
D9YYS3FISCB	3 Meters	15.95
D9YYS5FISCB	5 Meters	16.65
D9YYS10FISCB	10 Meters	18.40



1.6mm LC-SC UPC DUPLEX

PART #	LENGTH	PRICE
X9LYS1FISCB	1 Meter	\$17.25
X9LYS2FISCB	2 Meters	17.60
X9LYS3FISCB	3 Meters	17.95
X9LYS5FISCB	5 Meters	18.65
X9LYS10FISCB	10 Meters	20.40



1.6mm LC-LC UPC DUPLEX

PART #	LENGTH	PRICE
X9LLS1FISCB	1 Meter	\$17.25
X9LLS2FISCB	2 Meters	17.60
X9LLS3FISCB	3 Meters	17.95
X9LLS5FISCB	5 Meters	18.65
X9LLS10FISCB	10 Meters	20.40



1.6mm SC-SC PC SIMPLEX -OM3

PART #	LENGTH	PRICE
Y8YYM1FISC	1 Meter	\$6.95
Y8YYM2FISC	2 Meters	7.35
Y8YYM3FISC	3 Meters	7.75
Y8YYM5FISC	5 Meters	8.55
Y8YYM10FISC	10 Meters	10.55



1.6mm LC-LC PC SIMPLEX -OM3

PART #	LENGTH	PRICE
Y8LLM1FISC	1 Meter	\$8.00
Y8LLM2FISC	2 Meters	8.40
Y8LLM3FISC	3 Meters	8.80
Y8LLM5FISC	5 Meters	10.80
Y8LLM10FISC	10 Meters	12.80



1.6mm ST-ST PC SIMPLEX -OM3

PART #	LENGTH	PRICE
Y888M1FISC	1 Meter	\$6.95
Y888M2FISC	2 Meters	7.35
Y888M3FISC	3 Meters	7.75
Y888M5FISC	5 Meters	8.55
Y888M10FISC	10 Meters	10.55



1.6mm LC-SC PC SIMPLEX -OM3

PART #	LENGTH	PRICE
Y8LYM1FISC	1 Meter	\$8.00
Y8LYM2FISC	2 Meters	8.40
Y8LYM3FISC	3 Meters	8.80
Y8LYM5FISC	5 Meters	10.80
Y8LYM10FISC	10 Meters	12.80



1.6mm SC-ST PC SIMPLEX -OM3

PART #	LENGTH	PRICE
Y8Y8M1FISC	1 Meter	\$6.95
Y8Y8M2FISC	2 Meters	7.35
Y8Y8M3FISC	3 Meters	7.75
Y8Y8M5FISC	5 Meters	8.55
Y8Y8M10FISC	10 Meters	10.55



1.6mm LC-ST PC SIMPLEX -OM3

PART #	LENGTH	PRICE
Y8L8M1FISC	1 Meter	\$8.00
Y8L8M2FISC	2 Meters	8.40
Y8L8M3FISC	3 Meters	8.80
Y8L8M5FISC	5 Meters	10.80
Y8L8M10FISC	10 Meters	12.80



1.6mm ST-ST PC DUPLEX -OM3

PART #	LENGTH	PRICE
X888M1FISC	1 Meter	\$11.95
X888M2FISC	2 Meters	12.55
X888M3FISC	3 Meters	13.15
X888M5FISC	5 Meters	14.35
X888M10FISC	10 Meters	17.35



1.6mm SC-ST PC DUPLEX -OM3

PART #	LENGTH	PRICE
X8Y8M1FISC	1 Meter	\$11.95
X8Y8M2FISC	2 Meters	12.55
X8Y8M3FISC	3 Meters	13.15
X8Y8M5FISC	5 Meters	14.35
X8Y8M10FISC	10 Meters	17.35



1.6mm LC-ST PC DUPLEX -OM3

PART #	LENGTH	PRICE
X8L8M1FISC	1 Meter	\$12.95
X8L8M2FISC	2 Meters	13.55
X8L8M3FISC	3 Meters	14.15
X8L8M5FISC	5 Meters	15.35
X8L8M10FISC	10 Meters	18.35



1.6mm SC-SC PC DUPLEX -OM3

PART #	LENGTH	PRICE
X8YYM1FISC	1 Meter	\$11.95
X8YYM2FISC	2 Meters	12.55
X8YYM3FISC	3 Meters	13.15
X8YYM5FISC	5 Meters	14.35
X8YYM10FISC	10 Meters	17.35



1.6mm LC-LC PC DUPLEX -OM3

PART #	LENGTH	PRICE
X8LLM1FISC	1 Meter	\$12.95
X8LLM2FISC	2 Meters	13.55
X8LLM3FISC	3 Meters	14.15
X8LLM5FISC	5 Meters	15.35
X8LLM10FISC	10 Meters	18.35



1.6mm LC-SC PC DUPLEX -OM3

PART #	LENGTH	PRICE
X8LYM1FISC	1 Meter	\$12.95
X8LYM2FISC	2 Meters	13.55
X8LYM3FISC	3 Meters	14.15
X8LYM5FISC	5 Meters	15.35
X8LYM10FISC	10 Meters	18.35

1.6mm SC-SC PC DUPLEX -OM4

PART #	LENGTH	PRICE
X10YYM1FISC	1 Meter	\$15.95
X10YYM2FISC	2 Meters	16.95
X10YYM3FISC	3 Meters	17.85
X10YYM5FISC	5 Meters	19.75
X10YYM10FISC	10 Meters	24.50

1.6mm LC-LC PC DUPLEX -OM4

PART #	LENGTH	PRICE
X10LLM1FISC	1 Meter	\$16.95
X10LLM2FISC	2 Meters	17.95
X10LLM3FISC	3 Meters	18.85
X10LLM5FISC	5 Meters	20.75
X10LLM10FISC	10 Meters	24.55

1.6mm LC-SC PC DUPLEX -OM4

PART #	LENGTH	PRICE
X10LYM1FISC	1 Meter	\$16.95
X10LYM2FISC	2 Meter	17.95
X10LYM3FISC	3 Meter	18.85
X10LYM5FISC	5 Meter	20.75
X10LYM10FISC	10 Meter	24.55



3MM ST-ST SIMPLEX - 50µm

PART #	LENGTH	PRICE
S188M1FISC	1 Meter	\$5.35
S188M2FISC	2 Meters	5.70
S188M3FISC	3 Meters	6.05
S188M5FISC	5 Meters	6.75
S188M10FISC	10 Meters	8.50

3MM ST-ST SIMPLEX - 62.5µm

S288M1FISC	1 Meter	\$5.35
S288M2FISC	2 Meters	5.70
S288M3FISC	3 Meters	6.05
S288M5FISC	5 Meters	6.75
S288M10FISC	10 Meters	8.50



3MM SC-SC SIMPLEX - 50µm

PART #	LENGTH	PRICE
S1YYM1FISC	1 Meter	\$5.35
S1YYM2FISC	2 Meters	5.70
S1YYM3FISC	3 Meters	6.05
S1YYM5FISC	5 Meters	6.75
S1YYM10FISC	10 Meters	8.50

3MM SC-SC SIMPLEX - 62.5µm

S2YYM1FISC	1 Meter	\$5.35
S2YYM2FISC	2 Meters	5.70
S2YYM3FISC	3 Meters	6.05
S2YYM5FISC	5 Meters	6.75
S2YYM10FISC	10 Meters	8.50



1.6MM LC-LC SIMPLEX - 50µm

PART #	LENGTH	PRICE
Y1LLM1FISC	1 Meter	\$6.95
Y1LLM2FISC	2 Meters	7.30
Y1LLM3FISC	3 Meters	7.65
Y1LLM5FISC	5 Meters	8.35
Y1LLM10FISC	10 Meters	10.25

1.6MM LC-LC SIMPLEX - 62.5µm

Y2LLM1FISC	1 Meter	\$6.95
Y2LLM2FISC	2 Meters	7.30
Y2LLM3FISC	3 Meters	7.65
Y2LLM5FISC	5 Meters	8.35
Y2LLM10FISC	10 Meters	10.25



3MM ST-ST DUPLEX - 50µm

PART #	LENGTH	PRICE
D188M1FISC	1 Meter	\$10.00
D188M2FISC	2 Meters	10.60
D188M3FISC	3 Meters	11.20
D188M5FISC	5 Meters	12.40
D188M10FISC	10 Meters	15.40

3MM ST-ST DUPLEX - 62.5µm

D288M1FISC	1 Meter	\$10.00
D288M2FISC	2 Meters	10.60
D288M3FISC	3 Meters	11.20
D288M5FISC	5 Meters	12.40
D288M10FISC	10 Meters	15.40



3MM SC-SC DUPLEX - 50µm

PART #	LENGTH	PRICE
D1YYM1FISC	1 Meter	\$10.00
D1YYM2FISC	2 Meters	10.60
D1YYM3FISC	3 Meters	11.20
D1YYM5FISC	5 Meters	12.40
D1YYM10FISC	10 Meters	15.40

3MM SC-SC DUPLEX - 62.5µm

D2YYM1FISC	1 Meter	\$10.00
D2YYM2FISC	2 Meters	10.60
D2YYM3FISC	3 Meters	11.20
D2YYM5FISC	5 Meters	12.40
D2YYM10FISC	10 Meters	15.40



1.6MM LC-LC DUPLEX - 50µm

PART #	LENGTH	PRICE
X1LLM1FISC	1 Meter	\$11.00
X1LLM2FISC	2 Meters	12.20
X1LLM3FISC	3 Meters	12.20
X1LLM5FISC	5 Meters	13.40
X1LLM10FISC	10 Meters	16.40

1.6MM LC-LC DUPLEX - 62.5µm

X2LLM1FISC	1 Meter	\$11.00
X2LLM2FISC	2 Meters	12.20
X2LLM3FISC	3 Meters	12.20
X2LLM5FISC	5 Meters	13.40
X2LLM10FISC	10 Meters	16.40

**QUANTITY PRICING
IN STOCK**

**CUSTOM LENGTHS
AVAILABLE**

HYBRID PATCH CABLE



3MM ST-SC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
S28YM1FISC	1 Meter	\$5.35
S28YM2FISC	2 Meters	5.70
S28YM3FISC	3 Meters	6.05
S28YM5FISC	5 Meters	6.75
S28YM10FISC	10 Meters	8.50



1.6MM ST-LC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
Y28LM1FISC	1 Meter	\$6.95
Y28LM2FISC	2 Meters	7.30
Y28LM3FISC	3 Meters	7.65
Y28LM5FISC	5 Meters	8.35
Y28LM10FISC	10 Meters	10.25



1.6MM SC-LC SIMPLEX - 62.5µm

PART #	LENGTH	PRICE
Y2YLM1FISC	1 Meter	\$6.95
Y2YLM2FISC	2 Meters	7.30
Y2YLM3FISC	3 Meters	7.65
Y2YLM5FISC	5 Meters	8.35
Y2YLM10FISC	10 Meters	10.25



1.6mm ST-LC Duplex



1.6mm SC-LC Duplex

3MM ST-SC DUPLEX - 50µm

PART #	LENGTH	PRICE
D18YM1FISC	1 Meter	\$10.00
D18YM2FISC	2 Meters	10.60
D18YM3FISC	3 Meters	11.20
D18YM5FISC	5 Meters	12.40
D18YM10FISC	10 Meters	15.40

1.6MM ST-LC DUPLEX - 50µm

PART #	LENGTH	PRICE
X18LM1FISC	1 Meter	\$11.00
X18LM2FISC	2 Meters	11.60
X18LM3FISC	3 Meters	12.20
X18LM5FISC	5 Meters	13.40
X18LM10FISC	10 Meters	16.40

1.6MM SC-LC DUPLEX - 50µm

PART #	LENGTH	PRICE
X1YLM1FISC	1 Meter	\$11.00
X1YLM2FISC	2 Meters	11.60
X1YLM3FISC	3 Meters	12.20
X1YLM5FISC	5 Meters	16.75
X1YLM10FISC	10 Meters	16.40

3MM ST-SC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
D28YM1FISC	1 Meter	\$10.00
D28YM2FISC	2 Meters	10.60
D28YM3FISC	3 Meters	11.20
D28YM5FISC	5 Meters	12.40
D28YM10FISC	10 Meters	15.40

1.6MM ST-LC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
X28LM1FISC	1 Meter	\$11.00
X28LM2FISC	2 Meters	11.60
X28LM3FISC	3 Meters	12.20
X28LM5FISC	5 Meters	13.40
X28LM10FISC	10 Meters	16.40

1.6MM SC-LC DUPLEX - 62.5µm

PART #	LENGTH	PRICE
X2YLM1FISC	1 Meter	\$11.00
X2YLM2FISC	2 Meters	11.60
X2YLM3FISC	3 Meters	12.20
X2YLM5FISC	5 Meters	13.40
X2YLM10FISC	10 Meters	16.40

FEMALE MTRJ MULTIMODE PATCH CABLE



1.6MM FEMALE MTRJ-MTRJ

62.5µm

PART #	LENGTH	PRICE
X2MJMJM1FISC	1 Meter	\$9.95
X2MJMJM2FISC	2 Meters	10.55
X2MJMJM3FISC	3 Meters	11.15
X2MJMJM5FISC	5 Meters	12.35



1.6MM FEMALE MTRJ-ST

62.5µm

PART #	LENGTH	PRICE
X2MJ8M1FISC	1 Meter	\$9.95
X2MJ8M2FISC	2 Meters	10.55
X2MJ8M3FISC	3 Meters	11.15
X2MJ8M5FISC	5 Meters	12.35



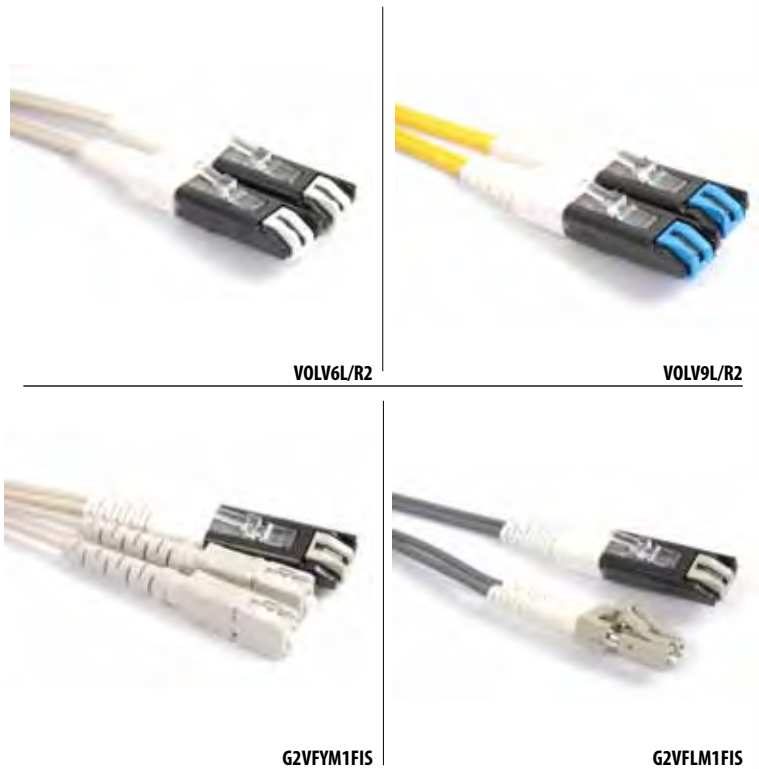
1.6MM FEMALE MTRJ-SC

62.5µm

PART #	LENGTH	PRICE
X2MJYM1FISC	1 Meter	\$9.95
X2MJYM2FISC	2 Meters	10.55
X2MJYM3FISC	3 Meters	11.15
X2MJYM5FISC	5 Meters	12.35

ASSEMBLIES | DUPLEX PATCH CABLE MULTIMODE/SINGLEMODE

PART #	DESCRIPTION	LENGTH	PRICE
VOLV9L/R2	VF-45 - VF-45 - Singlemode	2 Meters	\$19.45
VOLV9L/R3	VF-45 - VF-45 - Singlemode	3 Meters	22.25
VOLV9L/R5	VF-45 - VF-45 - Singlemode	5 Meters	27.85
VOLV9L/R15	VF-45 - VF-45 - Singlemode	15 Meters	49.50
VOLV6L/R1	VF-45 - VF-45 - Multimode (62.5µm)	1 Meter	13.75
VOLV6L/R2	VF-45 - VF-45 - Multimode (62.5µm)	2 Meters	15.80
VOLV6L/R3	VF-45 - VF-45 - Multimode (62.5µm)	3 Meters	17.90
VOLV6L/R5	VF-45 - VF-45 - Multimode (62.5µm)	5 Meters	23.25
VOLV6L/R10	VF-45 - VF-45 - Multimode (62.5µm)	10 Meters	31.95
G2VF8M1FIS	VF-45 -ST - Multimode (62.5µm)	1 Meter	27.95
G2VF8M2FIS	VF-45 -ST - Multimode (62.5µm)	2 Meters	28.95
G2VF8M3FIS	VF-45 -ST - Multimode (62.5µm)	3 Meters	34.85
G2VF8M5FIS	VF-45 -ST - Multimode (62.5µm)	5 Meters	31.95
G2VF8M10FIS	VF-45 -ST - Multimode (62.5µm)	10 Meters	36.95
G2VFLM1FIS	VF-45 -LC - Multimode (62.5µm)	1 Meter	27.95
G2VFLM2FIS	VF-45 -LC - Multimode (62.5µm)	2 Meters	28.95
G2VFLM3FIS	VF-45 -LC - Multimode (62.5µm)	3 Meters	29.95
G2VFLM5FIS	VF-45 -LC - Multimode (62.5µm)	5 Meters	31.95
G2VFLM10FIS	VF-45 -LC - Multimode (62.5µm)	10 Meters	36.95
G2VGYM1FIS	VF-45 -SC - Multimode (62.5µm)	1 Meter	27.95
G2VGYM2FIS	VF-45 -SC - Multimode (62.5µm)	2 Meters	28.95
G2VGYM3FIS	VF-45 -SC - Multimode (62.5µm)	3 Meters	29.95
G2VGYM5FIS	VF-45 -SC - Multimode (62.5µm)	5 Meters	31.95
G2VGYM10FIS	VF-45 -SC - Multimode (62.5µm)	10 Meters	56.12
G2VFMJM1FIS	VF-45 -MTRJ - Multimode (62.5µm)	1 Meter	30.95
G2VFMJM2FIS	VF-45 -MTRJ - Multimode (62.5µm)	2 Meters	31.95
G2VFMJM3FIS	VF-45 -MTRJ - Multimode (62.5µm)	3 Meters	33.95
G2VFMJM5FIS	VF-45 -MTRJ - Multimode (62.5µm)	5 Meters	35.95
G2VFMJM10FIS	VF-45 -MTRJ - Multimode (62.5)	10 Meters	47.30

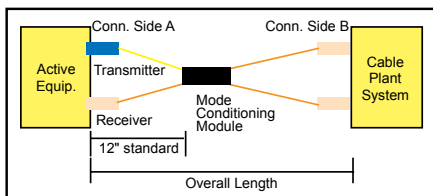


MODE CONDITIONING PATCH CABLE

Mode Conditioning Patch Cable is used in conjunction with laser transmitters with VCSEL for 1 Gb with FDDI fiber in fiber optic links to improve the transition bandwidth by the reduction of modal dispersion. These cords can be assembled in various configurations to meet your specific needs. Contact your FIS sales representative for pricing and delivery. Improve the performance of your network today.

Part # Example: F1-MCP-3-1-SC-SC

Translates to: Mode Conditioning Patch Cable 3 meters length, 50/125µm, SC connectors both ends.



CUSTOM MODE CONDITIONING MATRIX

MODE COND.	LENGTH IN METERS	MULTIMODE LEGS	CONN. Side A	CONN. Side B
F1-MCP	3	1	SC	SC
		CORE / CLAD SIZE 1=50/125µm - OM2 2=62.5/125µm - OM1	CONNECTORS SC=SC/PC ST=ST/PC LC=LC/PC MJ=MTRJ (no pins) MP=MTRJ (w/ pins)	CONNECTORS SC=SC/PC ST=ST/PC LC=LC/PC MJ=MTRJ (no pins) MP=MTRJ (w/ pins)



ALL PATCH CABLES 3mm Duplex Jacketing

SC-SC MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-SC-SC	1 Meter	\$65.00
F1-MCP-3-2-SC-SC	3 Meters	67.00
F1-MCP-5-2-SC-SC	5 Meters	69.00
F1-MCP-10-2-SC-SC	10 Meters	79.00

LC-SC MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-LC-SC	1 Meter	\$68.00
F1-MCP-3-2-LC-SC	3 Meters	70.00
F1-MCP-5-2-LC-SC	5 Meters	73.00
F1-MCP-10-2-LC-SC	10 Meters	78.00

ST-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-ST-ST	1 Meter	\$65.00
F1-MCP-3-2-ST-ST	3 Meters	67.00
F1-MCP-5-2-ST-ST	5 Meters	69.00
F1-MCP-10-2-ST-ST	10 Meters	79.00

SC-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-SC-ST	1 Meter	\$65.00
F1-MCP-3-2-SC-ST	3 Meters	67.00
F1-MCP-5-2-SC-ST	5 Meters	69.00
F1-MCP-10-2-SC-ST	10 Meters	79.00

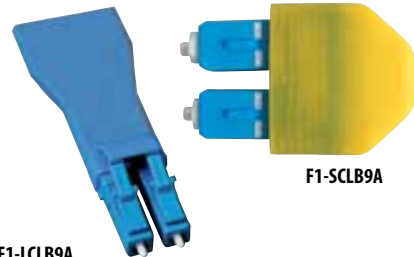
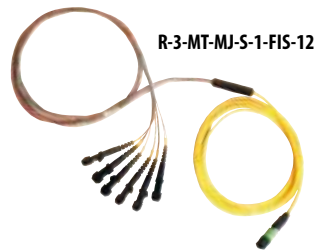
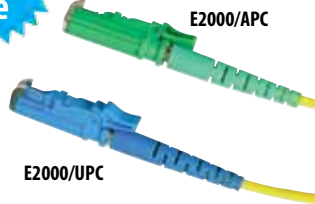
LC-ST MCP MULTIMODE 62.5/125µm

PART #	LENGTH	PRICE
F1-MCP-1-2-LC-ST	1 Meter	\$68.00
F1-MCP-3-2-LC-ST	3 Meters	70.00
F1-MCP-5-2-LC-ST	5 Meters	73.00
F1-MCP-10-2-LC-ST	10 Meters	78.00

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POLARIZATION MAINTAINING PATCH CABLE

For polarization-sensitive applications, FIS offers PM patch cables with UPC or APC connector finishes. Available in 900µm and 3mm jacketed versions. Important specifications need to be discussed with FIS Sales Associate upon ordering, such as: Alignment (slow or fast axis) Fiber Specifications, Cable Jacket (900µm buffer or 3.0mm), whether or not the purchased PM assemblies will be used for splicing. Contact FIS for additional specifications and pricing on PM jumpers of various lengths. **Specify Fibercore Limited PM fiber or Corning PM Fiber.**

PART #	DESCRIPTION	PRICE
S-4-9A-9A-S-1-FIS	Simplex FC/APC - FC/APC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter	\$95.00
S-4-9U-9U-S-1-FIS	Simplex FC/UPC - FC/UPC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter	95.00
S-4-9U-9A-S-1-FIS	Simplex FC/UPC - FC/APC, Slow Axis, 3.0mm Jacketed, Blue, 1 Meter	95.00

E2000 PATCH CABLE AND MATING SLEEVES

FIS offers Singlemode E2000 2.8mm cable assemblies. The E2000 comes with an integrated shutter system to protect the user from high-power laser emissions, and protects the connector from contamination.

Call for other configurations and lengths.

PART #	MFG	DESCRIPTION	PRICE
S-3-EU-EU-S-1-FISC	FIS	Simplex 9/125 E2000/UPC to E2000/UPC 1 Meter 2.8mm	\$26.95
S-3-EU-EU-S-3-FISC	FIS	Simplex 9/125 E2000/UPC to E2000/UPC 3 Meter 2.8mm	27.65
S-3-EU-EU-S-5-FISC	FIS	Simplex 9/125 E2000/UPC to E2000/UPC 5 Meter 2.8mm	28.35
S-3-EA-EA-S-1-FISC	FIS	Simplex 9/125 E2000/APC to E2000/APC 1 Meter 2.8mm	27.95
S-3-EA-EA-S-3-FISC	FIS	Simplex 9/125 E2000/APC to E2000/APC 3 Meter 2.8mm	28.65
F1-E2000	FIS	E2000 to E2000 Singlemode Adapter Ceramic Sleeve	12.00
F1-E2000APC	FIS	E2000/APC to E2000/APC Singlemode Adapter Ceramic Sleeve	15.00

MTP ASSEMBLIES, RIBBON FANOUTS AND PIGTAILS

FIS offers pre-assembled ribbon fan-out assemblies with your choice of connectors. FIS MTP cable assemblies provide low-loss connections and dependable performance. MTP connectors are available with or without guide pins; be sure to indicate designation upon ordering custom cable assemblies. Fan-out length available in 24" or 36" inches.

Custom configurations available.

PART #	DESCRIPTION	PRICE
R-3-MT-MT-S-1-FIS-12	MTP/Male - MTP/Male SM, 12 Fiber Ribbon, 1 Meter	\$115.00
R-3-MT-MJ-S-1-FIS-12	MTP/Male - MT-RJ/Female SM, 12 Fiber Ribbon, 1 Meter	110.00
R-3-MT-YU-S-1-FIS-12	MTP/Male - SC/UPC SM, 12 Fiber Ribbon, 1 Meter	110.00
R-3-MT-LU-S-1-FIS-12	MTP/Male - LC/UPC SM, 12 Fiber Ribbon, 1 Meter	115.00
R-3-YU-P-S-3-FIS-12	Ribbon Fanout, SC/UPC - Pigtail SM, 12 Fiber, 3 Meter	55.00
R-3-LU-P-S-3-FIS-12	Ribbon Fanout, LC/UPC - Pigtail SM, 12 Fiber, 3 Meter	55.00

FIS COMPACT NODE CABLES (SERVICE CABLES)

Fiber Instrument Sales' Compact Node is an epoxy based optical node cable assembly. Designed for HFC applications with the flexibility to fit aerial, pedestal and vault applications. Available in various custom configurations up to 12 fibers.

PART #	DESCRIPTION	PRICE
NC-3-BA-P-S-15-FIS-2	Node Cable 2 Fiber Loosetube Cable SM SC/APC - Pigtail, 15 Meters	\$105.00
NC-3-BA-P-S-15-FIS-4	Node Cable 4 Fiber Loosetube Cable SM SC/APC - Pigtail, 15 Meters	136.00
NC-3-BA-P-S-15-FIS-6	Node Cable 6 Fiber Loosetube Cable SM SC/APC - Pigtail, 15 Meters	170.00
NC-3-BU-P-S-15-FIS-2	Node Cable 2 Fiber Loosetube Cable SM SC/UPC - Pigtail, 15 Meters	99.00
NC-3-BU-P-S-15-FIS-4	Node Cable 4 Fiber Loosetube Cable SM SC/UPC - Pigtail, 15 Meters	130.00
NC-3-BU-P-S-15-FIS-6	Node Cable 6 Fiber Loosetube Cable SM SC/UPC - Pigtail, 15 Meters	164.00

FIS FIBER OPTIC TERMINATOR CONNECTORS

Low reflection Terminators are designed for use in unused ports and reduce back reflection into fiber optic systems. Each connector is environmentally sealed for protection. Back Reflection APC = -65dB UPC = -55dB

PART #	DESCRIPTION	PRICE
F1-0071	FIS ST/UPC Terminator Connector	\$6.95
F1-2071	FIS FC/UPC Terminator Connector	6.95
F1-3071	FIS SC/UPC Terminator Connector	6.95
F1-2072	FIS FC/APC Terminator Connector	7.95
F1-3072	FIS SC/APC Terminator Connector	7.95
F1-4071	FIS LC/UPC Terminator Connector	6.95
F1-4072	FIS LC/APC Terminator Connector	7.95

FIS LOOPBACK MODULES

Loopbacks are designed for testing, engineering and the burn-in stage of boards or other equipment. They provide system test engineers a simple but effective way of testing the transmission capability and receiver sensitivity of network equipment.

PART #	DESCRIPTION	PRICE
F1-SCLB9A	SC Loopback SM 9/125µm Fiber	\$13.95
F1-SCLB62A	SC Loopback MM 62.5/125µm Fiber	13.95
F1-LCLB9A	LC Loopback SM 9/125µm Fiber	13.95
F1-LCLB62A	LC Loopback MM 62.5/125µm Fiber	13.95
F1-LCLB50A	LC Loopback MM 50/125µm Fiber	13.95

FIS couplers and Wave Division Multiplexers (WDM's) are designed, manufactured, and tested to meet a variety of high performance and environmental requirements. Our high quality couplers are available in single wavelength and dual window varieties in an assortment of split ratios. Our WDM's feature low insertion loss in combination with high isolation. All device types are available in bare fiber, 900µm, or 3mm ruggedized versions and can be terminated with your choice of connectors or installed in a variety of modules.



SINGLEMODE DUAL WINDOW COUPLERS/SPLITTERS

PART #	DESCRIPTION	PRICE
250µm		
SDW13550122UC	1x2 (1310/1550nm) 50/50 Ratio	\$19.95
SDW13510122UC	1x2 (1310/1550nm) 10/90 Ratio	19.95
SDW13520122UC	1x2 (1310/1550nm) 20/80 Ratio	19.95
SDW13530122UC	1x2 (1310/1550nm) 30/70 Ratio	19.95
SDW13540122UC	1x2 (1310/1550nm) 40/60 Ratio	19.95
SDW13550222UC	2x2 (1310/1550nm) 50/50 Ratio	19.95
900µm		
SDW13550129UC	1x2 (1310/1550nm) 50/50 Ratio	\$21.95
SDW13510129UC	1x2 (1310/1550nm) 10/90 Ratio	21.95
SDW13520129UC	1x2 (1310/1550nm) 20/80 Ratio	21.95
SDW13530129UC	1x2 (1310/1550nm) 30/70 Ratio	21.95
SDW13540129UC	1x2 (1310/1550nm) 40/60 Ratio	21.95
SDW13550229UC	2x2 (1310/1550nm) 50/50 Ratio	21.95
SDW1351X333333129C	1x3 (1310/1550nm) 33/33/33 Ratio	53.00

MULTIMODE COUPLERS/SPLITTERS (800-1600nm)

PART #	DESCRIPTION	PRICE
250µm		
MMC28550122C	1x2 62.5/125µm Coupler 50/50 Ratio 250µm Fiber	\$29.95
MMC38550122C	1x2 50/125µm Coupler 50/50 Ratio 250µm Fiber	29.95
900µm		
MMC28550129C	1x2 62.5/125µm Coupler 50/50 Ratio 900µm Fiber	\$31.95
MMC28550229C	2x2 62.5/125µm Coupler 50/50 Ratio 900µm Fiber	31.95
MMC38550129C	1x2 50/125µm Coupler 50/50 Ratio 900µm Fiber	31.95

WAVELENGTH DIVISION MULTIPLEXERS

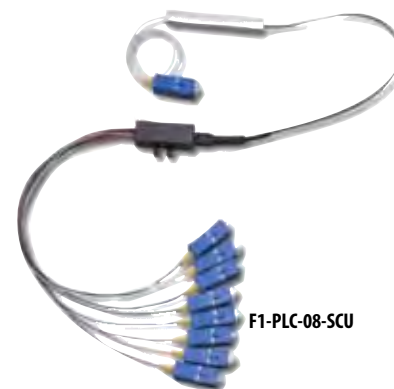
A Wave Division Multiplexer (WDM) is a coupler that enables you to channel a signal to multiple devices operating at different wavelengths.

PART #	DESCRIPTION	PRICE
250µm		
WDM13550122UC	1x2 5m Dual Window (1310/1550nm) WDM 250µm Fiber	\$19.95
900µm		
WDM13500129UC	1x2 5m Dual Window (1310/1550nm) WDM 900µm Fiber	\$21.95
WDM13500229UC	2x2 5m Dual Window (1310/1550nm) WDM 900µm Fiber	21.95

PLANAR LIGHTWAVE CIRCUIT COUPLERS/SPLITTERS

Today's high-port-count applications for broadband system applications demand the best performance and the highest reliability under the most adverse of environments. Planar Lightwave Circuit Splitters deliver on all these requirements. FIS provides a variety of PLC's pre-terminated with SC/UPC, SC/APC or the connector of choice.

PART #	DESCRIPTION	PRICE
F1PLC04	1x4 PLC Unconnectorized	\$80.00
F1PLC08	1x8 PLC Unconnectorized	90.00
F1PLC16	1x16 PLC Unconnectorized	150.00
F1PLC32	1x32 PLC Unconnectorized	235.00
F1-PLC-04-SCU	1x4 PLC with Fan Out and SC/UPC Connectors	107.00
F1-PLC-08-SCU	1x8 PLC with Fan Out and SC/UPC Connectors	130.00
F1-PLC-16-SCU	1x16 PLC with Fan Out and SC/UPC Connectors	218.00
F1-PLC-32-SCU	1x32 PLC with Fan Out and SC/UPC Connectors	366.00
F1-PLC-04-SCA	1x4 PLC with Fan Out and SC/APC Connectors	110.00
F1-PLC-08-SCA	1x8 PLC with Fan Out and SC/APC Connectors	135.00
F1-PLC-16-SCA	1x16 PLC with Fan Out and SC/APC Connectors	230.00
F1-PLC-32-SCA	1x32 PLC with Fan Out and SC/APC Connectors	388.00



RUGGEDIZED 2mm/3mm JACKETED COUPLERS/SPLITTERS

Install these ruggedized splitters into outdoor or indoor enclosures. The 2mm or 3mm furcated fiber legs offer extra protection when technicians are working in compact areas. The splitter/couplers are housed in a small plastic case; furcated fiber legs are attached with or without connectors installed. *Custom size jacketing/split ratios/connector styles available.*

PART #	DESCRIPTION	PRICE
RSC-3-S-2-50-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 50/50 split, SC/APC-SC/APC, 2mm jacketing	\$86.00
RSC-3-S-2-45-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 55/45 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-3-S-2-40-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 60/40 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-3-S-2-30-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 70/30 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-3-S-2-05-YA-YA-2	Ruggedized Splitter, SM, 1 x 2, 90/5 split, SC/APC-SC/APC, 2mm jacketing	86.00
RSC-1-S-2-50-Y-Y-3	Ruggedized Splitter, 50µm, 1 x 2, 50/50 split, SC/PC-SC/PC, 3mm jacketing	90.00
RSC-1-S-2-40-Y-Y-3	Ruggedized Splitter, 50µm, 1 x 2, 60/40 split, SC/PC-SC/PC, 3mm jacketing	90.00



PACKAGED NETWORK COUPLER

Housed and connectorized with your specified connector are 1X2 or 1X4 Multimode or Singlemode splitters. Also available in same packaging is Singlemode 1310/1550nm Wave Division Multiplexer (WDM). Specify core/clad size, connector style, and split ratio. (Highest port count available is 1X4.)

PART #	DESCRIPTION	PRICE
PNC-3-S-2-50-YU-YU	Packaged Network Coupler Box, Singlemode, 50/50 split, 1x2 SC/UPC Adapters	\$150.00
PNC-3-S-2-10-YU-YU	Packaged Network Coupler Box, Singlemode, 90/10 split, 1x2, SC/UPC Adapters	150.00
PNC-3-S-4-EV-YU-YU	Packaged Network Coupler Box, Singlemode, Even split, 1x4, SC/UPC Adapters	239.00

Other Configurations Available - Call FIS Representative.



WHY IS FIS A LEADING SUPPLIER OF CUSTOM FIBER OPTIC ASSEMBLIES...

1. FLEXIBILITY

- Wide Selection of components from leading manufacturers
- Ability to build to Engineering specifications or drawings
- From a quantity of 1 or 1,000's FIS can deliver

2. FAST DELIVERY / HIGH QUALITY

- Cables are ready to ship nationwide and internationally in as little as 2-3 days
- 100% inspection and tested to industry standards
- ISO 9001-2008 Certified
- Over 25 years of cable assembly experience

3. ADDITIONAL SERVICES

- Termination of Customer Supplied Materials
- Creation of Engineer drawings of assemblies
- Custom packaging, labeling
- Experienced engineering team to help design an assembly for any application

SPECIFICATIONS

LENGTH

SIMPLEX/DUPLEX

TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)
 BREAKOUT = N/A
 MAXIMUM CONNECTOR TO CONNECTOR = 1.5"

TESTING

INSERTION LOSS

MULTIMODE = >/= 0.4 dB (TYPICAL)
 SINGLEMODE = >/= 0.3 dB (TYPICAL)

STANDARD CONFIGURATIONS

Standard configurations (typical lead-time 2-4 days) – Convert your next project to “plug n’ go” by having your cable assemblies pre-terminated by FIS. Our expert technicians prepare assemblies from 1-fiber patch cable to 144-fiber assemblies, while offering a wide array of components for you to create the perfect assembly for your application.

CUSTOM CONFIGURATIONS

Custom configurations (typical lead-time 3-5 days) – FIS has the ability to manufacture a variety of custom configurations. Our custom abilities include but are not limited to labeling, packaging, testing requirements, and building to customer supplied specifications and drawings.

MULTIFIBER

TOTAL LENGTH = -0/+3" (> 5 MTRS), -0/+10% (< 5 MTRS)
 BREAKOUT = 1 MTR (-0/+3")
 MAXIMUM CONNECTOR TO CONNECTOR = 1.5"

RETURN LOSS

PC = </= -25dB
 UPC = </= -55dB
 APC = </= -60dB

CUSTOM FIBER OPTIC CABLE ASSEMBLY CONFIGURATOR:

CABLE TYPE	FIBER TYPE	CONNECTOR SIDE A	CONNECTOR SIDE B	MODE	LENGTH (IN METERS)
S	3	7A	8U	S	X
S=Simplex 3.0mm D=Duplex 3.0mm B=Breakout C=Distribution G=GGP Fiber Cable L=Loose Tube I=Indoor/Outdoor R=Ribbon X=Duplex 1.6mm E=250µm Bare Fiber Y=Simplex 1.6mm T=Simplex 2.0mm V=Duplex 2.0mm LA=Loosetube Armored A=Armored Cable PM=Polarization Maintaining RF=Ribbon Fan-Out ENC=Epoxy Node Cable N=900µm Buffered Fiber DB=Dry Block Cable Specialty MD=Micro-Distribution IG= Indoor/Outdoor Rated (250µm) BA=Breakout Cable w/Interlocking Armor TB= Tactical/Broadcast Cable DA= Outdoor Gel Free Armored Cable LZ=LSZH Cable RA=Ribbon Interlocking Armored Cable AER= Aerial RD= Round Duplex F= 1.8mm Simplex H= 1.8mm Duplex FD= Flat Drop Cable Z=1.2mm Simplex	1=50/125µm - OM2 2=62.5/125µm - OM1 3=8-9/125µm - OS2 4=Other 5=100/140µm 6=200/230µm 7=960/1000µm (plastic) 8=BI 50µm 10Gig - OM3 9=BI Singlemode 10=BI 50µm 10Gig - OM4	1=SMA905 2=SMA906 3=Biconic 4=FC/Stainless Alloy 5=ST/Stainless Alloy 6=D4 7=FC/PC 7U=FC/UPC 7A=FC/APC 8=ST/PC 8A=ST/APC 8U=ST/UPC Y=SC/PC YU=SC/UPC YA=SC/APC D=SC Duplex w/ Clips L=LC/PC LU=LC/UPC LA=LC/APC C=LC Duplex w/ Clips	W=FDDI X=Escon F=Ferrule Only M=MU/PC MU=MU/UPC 9A=PM-FC/APC 9U=PM-FC/UPC P=Pigtail AU=High Performance FC/UPC AA=High Performance FC/APC BU=High Performance SC/UPC BA=High Performance SC/APC EU=E2000/UPC EA=E2000/APC MJ=MTRJ (no pins) MT=MTP (w/pins) MP=MTRJ (w/pins) MF=MTP (no pins) VF=VF45	S= Singlemode M= Multimode H= Hybrid P= PM Fiber	

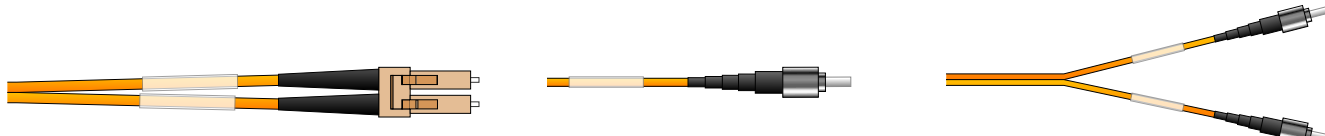
Note: Choose connector styles from either Connector Side A or Connector Side B column for Side A or Side B categories.

DID YOU KNOW?

JACKET TYPES

- **PLENUM (OFNP)** - refers to a specific fire code rating of cables that are resistant to fire and do not emit toxic fumes or smoke when burned. Plenum-rated cables are primarily used in pathways for either heated, cooled or return airflows.
- **RISER (OFNR)** - is constructed of PVC and may emit toxic fumes when burned and is to be run in non-plenum areas. Plenum cable can always replace riser cable, but riser cable cannot replace plenum cable in plenum spaces.

CONFIGURATION ILLUSTRATION



CLIPPED DUPLEX PATCH CABLE

Standard Polarity A to B / B to A

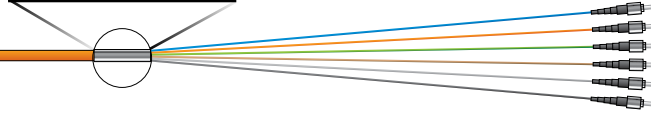
SIMPLEX PATCH CABLE

UNCLIPPED DUPLEX PATCH CABLE

Epoxy Node Connector



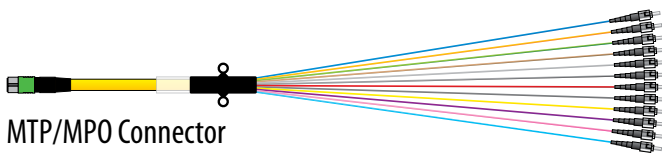
NODE CABLE ASSEMBLY



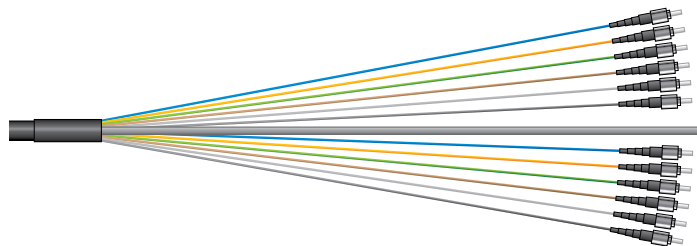
DISTRIBUTION - INDOOR/OUTDOOR ASSEMBLY

2-144 Fiber (ex. 6 Fiber Assembly)

MTP/MPO Connector



RIBBON FANOUT ASSEMBLY



LOOSE TUBE CABLE ASSEMBLY

USE THIS CHART TO BUILD CABLE YOU NEED TO YOUR EXACT SPECIFICATIONS.

CONNECTOR MFG
FIS
NP= No Preference FIS= FIS M= 3M MO= Molex S= Seikoh Giken CCS= Corning U= USConec CUS= Customer Supplied

CABLE MFG
TLC
NP= No Preference TLC= TLC MHK= Mohawk CCS= Corning AFL= AFL GCC= General Cable OCC= OCC HIT= Hitachi OTH= Other CUS= Customer Supplied

CABLE RATING
RI
NP= No Preference RI= OFNR (Riser) PL= OFNP (Plenum) LZ= LSZH (Low Smoke) UV= Polyethylene/Outdoor

FIBER COUNT
04
04=4 Fiber 06=6 Fiber 12=12 Fiber 24=24 Fiber 48=48 Fiber 72=72 Fiber 96=96 Fiber 144=144 Fiber *Specify Fiber Count not listed

BUILD-UP BREAKOUT
Z3
Z9=900µm Z1=1.8mm Z2=2mm Z3=3mm

PULLING EYE INSTALLED
PE
PE= Outside End Only PBE= Both Ends

Part # Example:

S-3-7A-8U-S-3-FIS-TLC-RI

Translates to: Simplex 9/125 FC/APC - ST/UPC with FIS brand connectors, singlemode, 3 meter, TLC cable, riser patch cable

CABLE CONSTRUCTION TYPES

- **SIMPLEX** - A single fiber cable that may consist of a 900µm coated fiber or a combination of a 900µm coated fiber surrounded by an aramid yarn strength member with an outer jacket diameter varying from 3, 2, 1.8 and 1.6mm.
- **DUPLEX** - A two-fiber cable that consists of a combination of two 900µm coated fibers surrounded by an aramid yarn strength member with an outer jacket diameter varying from 3, 2, 1.8 and 1.6mm. Also can choose 900µm duplex cable where the two 900µm buffers are joined together. (Limited offering from manufacturers.)
- **BREAKOUT** - Packages multiple 2.5-3.0mm jacketed fibers and surrounds these sub-units with an aramid yarn strength member and outer jacket. Fiber counts typically are 2-24 fibers. Primarily used in application where a rugged or robust cable is required.
- **DISTRIBUTION** - Packages multiple 900µm tight buffered fibers, surrounded by aramid yarn strength member, in a larger outer jacket. Fiber counts typically range from 2 - 144 fibers. Primarily used indoors and popular with interlocking armor for extra protection. Often referred to as MIC cable construction by other manufacturers.
- **MICRO-DISTRIBUTION** - Packages multiple 250µm buffered bare fibers of different colors within sub-units to minimize the outer jacket size. Fan-out kits or furcation tube often required to terminate connectors. Popular for indoor use with MTP/MPO connector and Fan-out assemblies in Data Center applications.
- **BARE FIBER** - A single glass fiber typically consisting of a core, cladding and 250µm acrylate coating.

- **TIGHT BUFFER** - A single bare fiber with an outer coating that is typically 900µm in diameter.
- **LOOSE TUBE** - Packages 250µm buffered fibers amongst each other in gel filled sub units typically 2.0-2.5mm. The gel filled tubes provide superior protection against changing temperatures and water filled conduits. Outer jacket is UV and moisture resistant.
- **LOOSE TUBE ARMORED** - Packages 250µm buffered fibers amongst each other in gel filled sub units typically 2.0-2.5mm. The gel filled tubes provide superior protection against changing temperatures and water filled conduits. The outer jacket is extruded over corrugated coated steel tape offering rodent proof protection, the jacket is UV and moisture resistant.
- **OUTDOOR DRY (GEL FREE) CABLE** - Packages 250µm buffered fibers within super absorbent polymer or water treated blocking aramid yarn. Dry loose tube design improves ease of termination without gel filled tubes. Recommended for installation in ducts, underground conduit or aerial/lashing applications not intended for direct burial. Armored version of cable utilizes corrugated coated steel tape for rodent protection, with extruded UV resistant jacket.
- **DISTRIBUTION INTERLOCKING ARMORED** - Available with Riser or Plenum rated outer jacket this cable houses 900µm buffered fibers surrounded by aramid yarn with interlocking aluminum armor then extruded outer flame resistant jacket. Intended for harsh indoor environments requiring heavy duty protection.
- **TACTICAL CABLE** - Packages typically multiple 2.0-2.5mm jacketed subunits surrounded by aramid yarn with epoxy/fiberglass strength member. Rugged design for heavy duty applications such as TV cameras, mining/harsh environments and military/commercial field re-deployable communications. Tactical Distribution packages 900µm fiber rather than larger subunits.

FIS provides specialized assemblies to the Military and Broadcast Industries. Count on us for custom broadcast or military grade tactical fiber optic cable assemblies with up to 12 fibers, in cables that are crush-resistant, resilient and with a thick layer of aramid strength members. The reinforced Kevlar jacket is strong enough to withstand the weight of a truck making these assemblies ideal for temporary field production, sporting events, and military operations. Call us today for more information and detailed specifications. Our cable assemblies can be terminated with a variety of specialized connectors such as Expanded Beam, TFOCA II® or SMPTE Connectors. These specialized connectors can also be paired with standard connectors (SC, LC, FC, ST etc.).



Broadcast and Tactical Cable Assembly Configurator:

Use this chart to build cable you need to your exact specifications.

CABLE TYPE	CORE SIZE	CONNECTOR #1	CONNECTOR #2	MODE	LENGTH	CABLE	FIBER COUNT	REEL
BC	2	8U	Y	M	Feet	FISB	4	RL
BC=SMPT 311M T=Tight Buffer Tactical TB=Breakout Tactical	1=62.5µm OM1 2=9µm OS1 3=50µm OM3	FUW=Lemo Cable Mounted Plug PUW=Lemo Cable Mounted Receptacle FXW=Lemo Panel Mounted Plug EDW=Lemo Panel Mounted Receptacle SE=Fischer Cable Plug KE=Fischer Cable Receptacle T2P=TFOCA II® Plug T2R=TFOCA II® Jam-Nut Receptacle T2F=TFOCA II® Flange Mount Receptacle EP=Expanded Beam Plug EBB=Expanded Beam Jam-Nut Receptacle EBF=Expanded Beam Flange Mount Receptacle MXP=Mini-Expanded Beam Plug MXB=Mini-Expanded Beam Jam-Nut Receptacle MXF=Mini-Expanded Beam Flange Mount Receptacle DP=Delphi Plug DB=Delphi Jam-Nut Receptacle FP=Fischer 4-Channel Plug FB=Fischer 4-Channel Jam-Nut Receptacle YP=SC ODVA Plug (Simplex) LP=LC ODVA Plug (Duplex) ODMTF=MPO ODVA Female Plug ODMTM=MPO ODVA Male Plug 8U=ST YU=SC LU=LC 7U=FC P=Pigtails	FUW=Lemo Cable Mounted Plug PUW=Lemo Cable Mounted Receptacle FXW=Lemo Panel Mounted Plug EDW=Lemo Panel Mounted Receptacle SE=Fischer Cable Plug KE=Fischer Cable Receptacle T2P=TFOCA II® Plug T2R=TFOCA II® Jam-Nut Receptacle T2F=TFOCA II® Flange Mount Receptacle EP=Expanded Beam Plug EBB=Expanded Beam Jam-Nut Receptacle EBF=Expanded Beam Flange Mount Receptacle MXP=Mini-Expanded Beam Plug MXB=Mini-Expanded Beam Jam-Nut Receptacle MXF=Mini-Expanded Beam Flange Mount Receptacle DP=Delphi Plug DB=Delphi Jam-Nut Receptacle FP=Fischer 4-Channel Plug FB=Fischer 4-Channel Jam-Nut Receptacle YP=SC ODVA Plug (Simplex) LP=LC ODVA Plug (Duplex) ODMTF=MPO ODVA Female Plug ODMTM=MPO ODVA Male Plug 8U=ST YU=SC LU=LC 7U=FC P=Pigtails	S=Singlemode M=Multimode		FISB=FIS BLUE OCC=OCC AFL=AFL MHK=MOHAWK CUS=CUSTOMER SUPPLIED	2= 2 Fiber 4= 4 Fiber 6= 6 Fiber 12= 12 Fiber	RL=Loaded On A Reel NRL= No Reel

FIS HAS AN AVERAGE TURNAROUND OF 1 WEEK



Fanout and Pigtails Available



SMPT 311M CABLE ASSEMBLIES

These rugged stainless steel out shelled SMPT connectors ensure a very long product life. Cable assemblies utilize two Singlemode fiber contacts, two power contacts and two signal contacts. Cable assemblies are available with multiple configurations including panel mount receptacles and plugs.

- Quick Push-Pull Self Latching System
- Stainless Steel for Harsh Environment
- Complies with SMPT Signal Requirements
- Popular HDTV Connection on Cameras and Panels

PART #	DESCRIPTION	PRICE
BC-3-FUW-PUW-S-100-2-FISB	LEMO SMPT Assembly PUW (receptacle) to FUW (plug) 100 feet	\$945.00
BC-3-FUW-PUW-S-250-2-FISB	LEMO SMPT Assembly PUW (receptacle) to FUW (plug) 250 feet	1,118.00
BC-3-FUW-PUW-S-500-2-FISB	LEMO SMPT Assembly PUW (receptacle) to FUW (plug) 500 feet	1,405.00
BC-3-FXW-8U-S-3-2-FISB	LEMO SMPT Assembly FXW (plug) to ST 3 feet	493.00
BC-3-EDW-8U-S-3-2-FISB	LEMO SMPT Assembly EDW (receptacle) to ST 3 feet	363.00

*For other lengths add or subtract cable @ \$1.15 per foot

TACTICAL FIBER OPTIC CABLE ASSEMBLIES

Amphenol Fiber Systems International TFOCA and TFOCA II® are designed to withstand repeated handling and mating cycles typically required for rapid fiber optic cable deployment and retrieval in a tactical environment. TFOCA is the replacement for US Army and US Marine Corps legacy systems with TFOCA (AT&T). It's a hermaphroditic design for Multimode or Singlemode fiber utilizing Biconic termini.

PART #	DESCRIPTION	PRICE
T-3-T2P-T2P-S-100-4-FISB	TFOCA-II Plug to Plug Singlemode 4-channel 100 feet	\$1,510.00
T-3-T2P-T2P-S-100-12-FISB	TFOCA-II Plug to Plug Singlemode 12-channel 100 feet	3,220.00
T-3-T2R-8U-S-10-4-FISB	TFOCA-II Jam-Nut Receptacle to ST Singlemode 4-channel 10 feet	514.00
T-3-T2R-LU-S-10-4-FISB	TFOCA-II Jam-Nut Receptacle to LC Singlemode 4-channel 10 feet	514.00
T-3-T2R-8U-S-10-12-FISB	TFOCA-II Jam-Nut Receptacle to ST Singlemode 12-channel 10 feet	1,415.00

TFOCA-II® is a registered trademark of Amphenol Fiber Systems International.

SMPT AND TACTICAL CABLE ASSEMBLY REPAIR SERVICE

Our repair service is perfect if you want to save time and money. SMPT cable assemblies can cost thousands of dollars, so it's good to know all of your options. You can ship your SMPT or tactical cable assembly to us and we can repair it for a fraction of what it might cost for new. Our service includes an evaluation, repair, and testing to make sure your cable assembly is going to perform when you need it.

FIS BLUE TACTICAL FIBER OPTIC CABLE

FIS Blue Broadcast/Tactical Cable consists of a polyurethane outer jacket with your choice of two, four, six or twelve 900µm tight buffers surrounded by aramid yarn and an aramid ripcord. Polyurethane jacket makes the cable highly flexible and rugged, so it can also be used in direct burial applications. Tactical fiber optic cables are designed for harsh outdoor environments where maximum performance and reliability is essential.

PART #	FIBER COUNT	DESCRIPTION	PRICE
FB-SMTACCABLE2	2	2-fiber Singlemode Tactical Cable	\$1.54 /Mtr.
FB-SMTACCABLE4	4	4-fiber Singlemode Tactical Cable	1.35 /Mtr.
FB-SMTACCABLE6	6	6-fiber Singlemode Tactical Cable	2.35 /Mtr.
FB-SMTACCABLE12	12	12-fiber Singlemode Tactical Cable	2.23 /Mtr.
FB-50TACCABLE2	2	2-fiber 50µm OM3 Tactical Cable	1.85 /Mtr.
FB-50TACCABLE4	4	4-fiber 50µm OM3 Tactical Cable	2.66 /Mtr.
FB-50TACCABLE6	6	6-fiber 50µm OM3 Tactical Cable	3.58 /Mtr.
FB-50TACCABLE12	12	12-fiber 50µm OM3 Tactical Cable	6.40 /Mtr.

OCC TACTICAL FIBER OPTIC CABLE

FIS also offers tactical fiber optic cables from OCC. There are Mil-Spec Tactical and Broadcast Tactical versions available.

PART #	FIBER COUNT	DESCRIPTION	PRICE
D002CLS5KM	2	2-fiber Singlemode Mil-Spec Tactical Cable	\$2.30 /Mtr.
D004CLS5KM	4	4-fiber Singlemode Mil-Spec Tactical Cable	3.50 /Mtr.
D006CLS5KM	6	6-fiber Singlemode Mil-Spec Tactical Cable	4.92 /Mtr.
D012CLS5KM	12	12-fiber Singlemode Mil-Spec Tactical Cable	8.80 /Mtr.
D002CWST5KM	2	2-fiber 62.5µm OM1 Mil-Spec Tactical Cable	3.17 /Mtr.
D004CWST5KM	4	4-fiber 62.5µm OM1 Mil-Spec Tactical Cable	5.20 /Mtr.
D006CWST5KM	6	6-fiber 62.5µm OM1 Mil-Spec Tactical Cable	7.44 /Mtr.
D012CWST5KM	12	12-fiber 62.5µm OM1 Mil-Spec Tactical Cable	13.89 /Mtr.

SMPTTE FERRULE CLEANING GUN

In-adapter ferrule cleaner can quickly remove contamination on connector endfaces and bulkheads. This easy to use cleaner can clean a connector in less than 5 seconds with no physical work. The AFC-3000/LEMO comes with cleaning gun, cartridge and LEMO tips.

- Clean SMPTTE connectors fast!
- Remove 99.5% of contaminants
- Solve problems by cleaning first
- Great for field and indoor applications

PART #	DESCRIPTION	PRICE
AFC3000/1/LEMO	In-Adapter Ferrule Cleaning Gun	\$902.17
CFC600LC	LEMO Replacement Cartridge	450.00

LEMO EXTRACTION TOOL

For inserting and removing contact sleeves for LEMO FUW connectors.

PART #	DESCRIPTION	PRICE
DCSF2035PN	LEMO Alignment Tool	\$30.00

19" SMPTTE RACK MOUNT PANELS

- 19" Steel Panel
- Black finish
- Six and eight position punch-outs available
- Available unloaded or custom loaded upon your request
- EDW Panel accommodates LEMO's PBW
- FXW Panel accommodates LEMO's FMW

PART #	DESCRIPTION	PRICE
FBRMEDW-BL	EDW Receptacle 6-position Rack-Mount Panel (Unloaded)	\$47.00
FBRMFXW-BL	FXW Receptacle 6-position Rack-Mount Panel (Unloaded)	47.00
FBRMEDW-8BL	EDW Receptacle 8-position Rack-Mount Panel (Unloaded)	67.00
FBRMFXW-8BL	FXW Receptacle 8-position Rack-Mount Panel (Unloaded)	67.00

*Loaded panels include LEMO EDW or FXW assembly to ST and blunt copper ends 3 feet (BC-3-FXW-8U-S-3-2-FISB or BC-3-EDW-8U-S-3-2-FISB). Request your quote today on your custom loaded requirements.

BROADCAST AND TACTICAL CABLE REELS

Specially designed steel cable reels to transport or store your broadcast and fiber application. Stack them on your truck or in your warehouse or roll them wherever you like. Please ask about getting your next custom cable assembly on a reel.

PART #	DIMENSIONS	PRICE
YHP009C	480(L) x 450(W) x 535(H) mm (18.9 x 17.7 x 21.1in)	\$422.50
YHP009B	570(L) x 450(W) x 535(H) mm (22.4 x 17.7 x 21.1in)	453.80
YHP009A	720(L) x 450(W) x 535(H) mm (29.5 x 17.7 x 21.1in)	462.00
GT310RM	Schill GT-310 Cable Reel With RM Cable Flange Support	132.84
GT380RM	Schill GT-380 Cable Reel With RM Cable Flange Support	271.29
HT485RM	Schill HT-485 Cable Reel With RM Cable Flange Support	362.44



YHP009B



GT310RM



HT485RM



AFC-3000/1/LEMO



DCSF2035PN



DELPHI 4 AND 12 CHANNEL HERMAPHRODITIC CABLE ASSEMBLIES

Delphi's 4 Channel Hermaphroditic Connectors are both Single and Multimode compatible in the same connector. They are designed to withstand crush, impact, cable twist, bending movement, water and mud immersion, as well as many other harsh environments. They will link to identical connectors without regard to connector gender.

PART #	DESCRIPTION	PRICE
T-3-DP-DP-S-1-4-FISB	Delphi 4-channel Plug to Plug Singlemode 1 Feet	\$921.00
T-3-DB-8U-S-1-4-FISB	Delphi 4-channel Jam-Nut Receptacle to ST Singlemode 1 Feet	444.00
T-3-DB-LU-S-1-4-FISB	Delphi 4-channel Jam-Nut Receptacle to LC Singlemode 1 Feet	444.00
* add \$0.42 per foot for longer cables utilizing FIS Blue Tactical cable		
T-3-DP-DP-S-1-12-FISB	Delphi 12-channel Plug to Plug Singlemode 1 Feet	1,888.52
T-3-DB-8U-S-1-12-FISB	Delphi 12-channel Jam-Nut Receptacle to ST Singlemode 1 Feet	929.00
T-3-DB-LU-S-1-12-FISB	Delphi 12-channel Jam-Nut Receptacle to LC Singlemode 1 Feet	929.00
* add \$0.68 per foot for longer cables utilizing FIS Blue Tactical cable		

Connectors Are Also Available For Purchase. Please Call For Pricing.

LC, SC AND MPO ODVA CABLE ASSEMBLIES AND BULKHEAD ADAPTERS

Rugged, yet affordable, LC optical connector system for applications requiring sealing. Compliant with ODVA requirements.

LC ODVA, 2-fiber

FB-IP68-LC-SM-ODVA-IA	ODVA LC Singlemode In-Line Adapter, Includes Dust Cap	\$16.50
T-3-LP-LP-S-1-2-FISB	ODVA LC Plug to ODVA LC Plug 2-fiber Singlemode 1 Feet	87.91
T-3-LP-8U-S-1-2-FISB	ODVA LC Plug to ST 2-fiber Singlemode 1 Feet	84.27
* add \$0.47 per foot for longer cables utilizing FIS Blue Tactical cable		

FB-IP68-LC-MM-ODVA-IA	ODVA LC Multimode In-Line Adapter, Includes Dust Cap	15.30
T-8-LP-LP-M-1-2-FISB	ODVA LC Plug to ODVA LC Plug 2-fiber 50µm OM3 1 Feet	87.05
T-8-LP-8U-M-1-2-FISB	ODVA LC Plug to ST 2-fiber 50µm OM3 1 Feet	83.84
* add \$0.47 per foot for longer cables utilizing FIS Blue Tactical cable		

SC ODVA, 1-fiber

FB-IP68-SC-SM-ODVA-IA	ODVA SC Singlemode In-Line Adapter, Includes Dust Cap	10.75
T-3-YP-YP-S-1-2-FISB	ODVA SC Plug to ODVA SC Plug 1-fiber Singlemode 1 Feet	56.36
T-3-YP-8U-S-1-2-FISB	ODVA SC Plug to ST 1-fiber Singlemode 1 Feet	48.49
* add \$0.47 per foot for longer cables utilizing FIS Blue Tactical cable		

FB-IP68-SC-MM-ODVA-IA	ODVA SC Multimode In-Line Adapter, Includes Dust Cap	10.55
T-8-YP-YP-M-1-2-FISB	ODVA SC Plug to ODVA SC Plug 2-fiber 50µm OM3 1 Feet	56.36
T-8-YP-8U-M-1-2-FISB	ODVA SC Plug to ST 2-fiber 50µm OM3 1 Feet	48.49
* add \$0.56 per foot for longer cables utilizing FIS Blue Tactical cable		

Connectors Are Also Available For Purchase. Please Call For Pricing.

MC2 SERIES 3G/HD/SDI VIDEO BNC-ST MEDIA CONVERTERS

MC2 Video Media Converter modules offer extended distance over singlemode fiber for high-speed serial digital video links for multi-protocol 3G/HD/SDI/DVB/ASI video applications with data transfer rates up to 2.97Gbps.

- ST Physical Contact Optical Interface
- +4.5 to 24 VDC Operating Voltage Range
- Power Supply Sold Separately or Included in Kit models
- RoHS-6 Compliant
- Rugged Construction

PART #	DESCRIPTION	PRICE
MC2-K-P-2-F1	Includes: 1 Transmitter, 1 Receiver, 2 Power Supplies in rugged case	\$1,954.20
MC2-T-P-2	Transmitter	826.00
MC2-R-P-2	Receiver	826.00

FISCHER 4 CHANNEL RUGGED CABLE ASSEMBLIES

Fischer Fiber Optic push-pull connector solutions are purpose built to withstand the elements of rugged and harsh environments, providing virtually faultless performance. Extreme Environmental Robustness: IP68 ingress protection when mated or with caps and IP67 sealing even unmated.

PART #	DESCRIPTION	PRICE
T-3-FP-FP-S-100-FISB-4	Fischer 4-channel Plug to Plug Singlemode 100 Feet	CALL
T-3-FB-8U-S-2-FISB-4	Fischer 4-channel Jam-Nut Receptacle to ST Singlemode 2 Feet	CALL



45675996H



SMPTÉ TEST SET

FIS Blue's Ruggedized SMPTÉ Test Set is designed for harsh work conditions where handheld units are not appropriate. The SMPTÉ Test Set utilizes a remote loopback unit for single ended testing of both optical fibers as well as power for the built-in copper conductor tests. The set checks all 4 copper conductors for continuity and shorts as well as verifying the integrity of the grounding shield in the cable with simple pass/fail audible and visual indicators. The main control unit houses the optical fiber power meter readout, copper conductor test indicators, and the SMPTÉ fixed plug connector. The Remote Unit contains the SMPTÉ fixed socket connector.



F1-STS01-1

FEATURES

- Single Test Checks Both Fibers for Loss and all 4 Copper Conductors for Continuity, Short Circuits and Ground Braid Integrity
- Simple Audible and Visual Pass/Fail Indicators for Copper Tests
- Designed for Harsh Environments in Ruggedized Housing
- Rechargeable NiMH Batteries
- Tests 1310nm Wavelength
- Integrated VFL
- New polarity and short testing for copper lines
- Most complete SMPTÉ Test Set in the industry

PART #	DESCRIPTION	PRICE
F1-STS01-1	SMPTÉ Test Set	\$2,950.00

EXPANDED BEAM CABLE ASSEMBLIES

Our Expanded Beam connectors are designed to the MIL83526/20 Mil-Spec. They are available in 2 and 4 channels, multimode or singlemode. There is also a Mini Expanded Beam version that is available in 2 and 4 channels, multimode or singlemode. All connectors utilize a hermaphroditic interconnection with advanced expanded beam technology. The expanded beam connectors are a very rugged design.

"MIL83526/20 STANDARD" CABLE ASSEMBLIES

PART #	DESCRIPTION	PRICE
T-3-EP-EP-S-1-2-FISB	Expanded Beam Plug to Plug 2-channel Singlemode 1 Feet	\$1,168.00
T-3-EBB-8U-S-1-2-FISB	Expanded Beam Jam-Nut Receptacle to ST 2-channel Singlemode 1 Feet	611.00

* add \$0.47 per foot for longer cables utilizing FIS Blue Tactical cable

T-3-EP-EP-S-1-4-FISB	Expanded Beam Plug to Plug 4-channel Singlemode 1 Feet	1,414.00
T-3-EBB-8U-S-1-4-FISB	Expanded Beam Jam-Nut Receptacle to ST 4-channel Singlemode 1 Feet	761.00

* add \$0.41 per foot for longer cables utilizing FIS Blue Tactical cable

T-8-EP-EP-M-1-2-FISB	Expanded Beam Plug to Plug 2-channel 50µm OM3 1 Feet	1,168.00
T-8-EBB-8U-M-1-2-FISB	Expanded Beam Jam-Nut Receptacle to ST 2-channel 50µm OM3 1 Feet	611.00

* add \$0.56 per foot for longer cables utilizing FIS Blue Tactical cable

T-8-EP-EP-M-1-4-FISB	Expanded Beam Plug to Plug 4-channel 50µm OM3 1 Feet	1,414.00
T-8-EBB-8U-M-1-4-FISB	Expanded Beam Jam-Nut Receptacle to ST 4-channel 50µm OM3 1 Feet	761.00

* add \$0.81 per foot for longer cables utilizing FIS Blue Tactical cable

"MINI" CABLE ASSEMBLIES

T-3-MXP-MXP-S-1-4-FISB	Expanded Beam Mini Plug to Mini Plug 4-channel Singlemode 1 Feet	1,414.00
T-3-MXB-8U-S-1-4-FISB	Expanded Beam Mini Jam-Nut Receptacle to ST 4-channel Singlemode 1 Feet	761.00

* add \$0.41 per foot for longer cables utilizing FIS Blue Tactical cable

T-8-MXP-MXP-M-1-4-FISB	Expanded Beam Mini Plug to Mini Plug 4-channel 50µm OM3 1 Feet	1,414.00
T-8-MXB-8U-M-1-4-FISB	Expanded Beam Mini Jam-Nut Receptacle to ST 4-channel 50µm OM3 1 Feet	761.00

* add \$0.81 per foot for longer cables utilizing FIS Blue Tactical cable



Stratos HMA Shown



BASIC SMPTÉ, DELPHI AND MILITARY CLEANING KITS

FIS Blue's Basic SMPTÉ and Military Tool and Cleaning Kits include all the items needed to properly clean and maintain SMPTÉ, TFOCA, Delphi, Expanded Beam connectors, plus the standard ST/FC/SC/LC type connectors. In addition there are some basic tools for maintaining and working with the connectors.



PART #	DESCRIPTION	PRICE
FB-BASMPTE-KIT	Basic SMPTÉ Cleaning and Tool Kit	\$345.00
FB-BAMIL-KIT	Basic Military Cleaning and Tool Kit	290.00
FB-BASMPTE-KIT-CTY	Basic SMPTÉ (LEMO/Canare, SMPTÉ 304M) Kit with Continuity Testers	965.00
FB-BAMIL-KIT-TFCTY	Basic Military (TFOCA-II - M29504/16) Kit with Continuity Tester	995.00
FB-BAMIL-KIT-DLCTY	Basic Military (Delphi, M29504/14 /15) Kit with Continuity Tester	995.00
FB-BAMIL-KIT-EBSMCTY	Basic Military (Expanded Beam, SM) Kit with Continuity Tester	1,475.00
FB-BAMIL-KIT-EB50CTY	Basic Military (Expanded Beam, 50um) Kit with Continuity Tester	1,295.00
FB-BAMIL-KIT-EB62CTY	Basic Military (Expanded Beam, 62.5um) Kit with Continuity Tester	1,295.00



FB-BASMPTE-KIT-CTY

WHAT TO PUT IN YOUR FIBER OPTIC TROUBLESHOOTING TOOL KIT?

- **Cleaning Supplies:** Be sure to clean ferrule end faces prior to connection in effort to protect equipment interfaces.
- **Microscope:** Ensure the connector end faces are clean to avoid signal attenuation resulting from debris or oil transfer during handling.
- **Visual Fault Locators:** Verify continuity through the network interfaces and identify any macro-bends or breaks in optical fiber that allow signal to escape during transmission.
- **Power Meter & Light Source:** Test optical link for certification acceptance or excessive attenuation loss by reading actual dB loss over the installed cable, patch cables and splices.
- **Fiber Identifier:** On a live singlemode fiber network an operating link can be recognized prior to disconnecting; often the traffic direction is provided as well as power levels on some identifiers. These units can also be used to identify certain cables when several are bundled together by using a tone generator.
- **OTDR:** Analyze a graphical representation of the fiber optic link including cable, connector loss, fusion splices, mechanical splices, macro-bends and optical return loss. This tool can identify faults within feet (or meters) to point technician in the right direction for troubleshooting. An OTDR is often required for certification as well as for documenting link length, back reflection of components, and attention of link after installation.

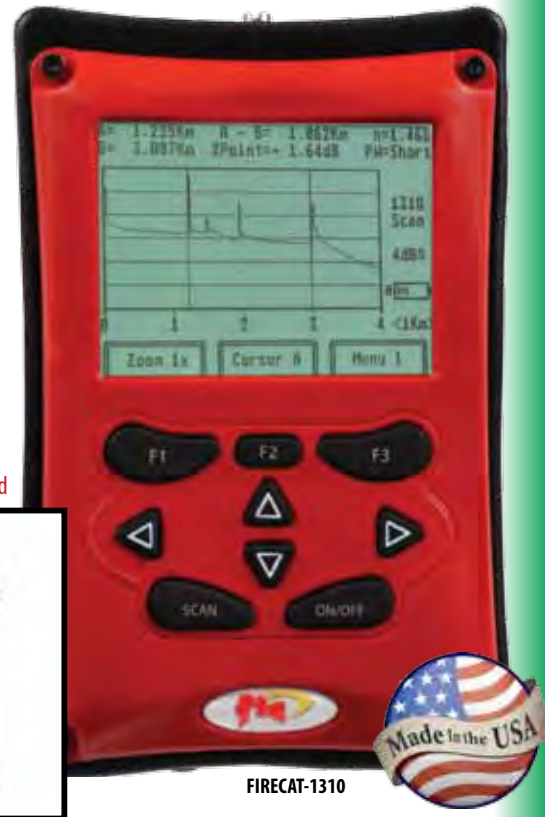


FIRECAT OTDR

The FIS Firecat OTDR provides an industry leading value with its low cost and easy functionality. This unit is perfect for both inexperienced and experienced technicians alike with its simple on screen 'soft key menus'. By providing the essentials for fiber optic troubleshooting, this OTDR is the perfect tool for basic link troubleshooting and is affordable enough for every truck, office or tool kit.

FEATURES:

- Dynamic Range - 23dB
- Lowest Cost OTDR in the Industry
- Easy Operation with 'Soft Key Menus'
- Small, Lightweight and Rugged
- Interchangeable Adapters
- Event Table and Auto-Test Modes
- USB Data Transfer
- Backlight Keypad and Screen for Easy Use in Dim Lighting Conditions
- Available in a Ruggedized Version for harsh conditions



Side View of Handheld



FIRECAT-1310



Ruggedized Version

Each Unit Includes: 110v AC adapter, Certification Software, Data Transfer Cable, SC Interchangeable Adapter, Soft Carry Case, and Instruction Manual.
When purchasing unit for 220v application, 220v adapter must be purchased separately.

PART #	DESCRIPTION	PRICE
FIRECAT-850	Single Wavelength – Multimode 850nm	\$1,995.00
FIRECAT-1300	Single Wavelength – Multimode 1300nm	1,995.00
FIRECAT-1310	Single Wavelength – Singlemode 1310nm	1,995.00
FIRECAT-1550	Single Wavelength – Singlemode 1550nm	1,995.00
FIRECAT-8513	Dual Wavelength - Multimode 850/1300	2,700.00
FIRECAT-1315	Dual Wavelength – Singlemode 1310/1550	2,700.00
FIRECAT-QUAD	Quad Wavelength – MM/SM 850/1300/1310/1550	4,500.00

NOTE: ADD "R" TO THE END OF THE PART NUMBER FOR RUGGEDIZED VERSION
Add Additional \$100.00 to price (Example: FIRECAT – 850 – R = Single wavelength – Multimode 850 – Ruggedized)

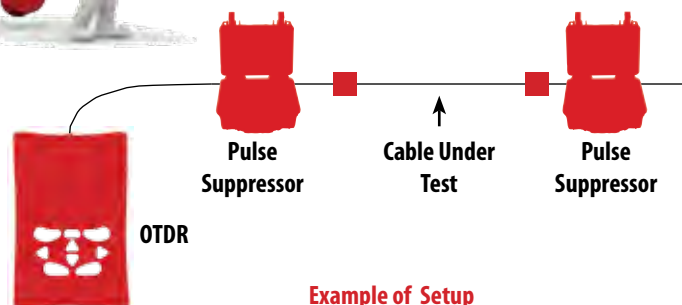
ACCESSORIES

PART #	DESCRIPTION	PRICE
FIRECAT-AC110	AC Adapter 110v	\$35.00
FIRECAT-AC220	AC Adapter 220v	35.00
FIRECAT-CASE	Hard Carry Case	100.00
FIRECAT-USB	USB Flash Drive with Software	19.95
FIRECAT-CABLE	Data Transfer Cable	6.95
F1-FIRECAT-ST	ST Adapter	10.00
F1-FIRECAT-FC	FC Adapter	10.00
F1-FIRECAT-SC	SC Adapter	10.00

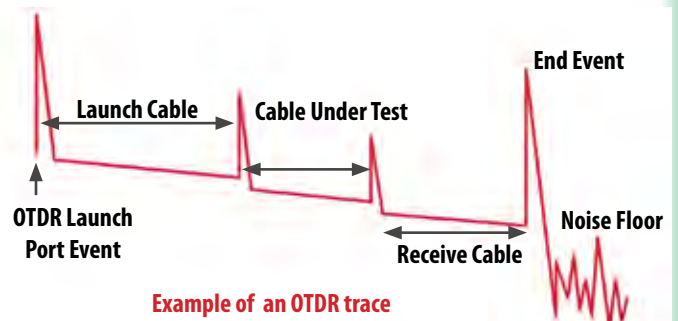


DID YOU KNOW... Utilizing Two Launch Cables (Pulse Suppressors) Allow Accurate Measurements

Using two (2) Pulse Suppressors, sometimes referred to as a launch and receive cable, allows a more accurate measurement of the cable link under test. It allows the pulse to settle down prior to the first connector on the cable link and lets the technician determine its insertion loss and back reflection (ORL). A receive cable placed on the far connector at the end of the cable is used to determine its insertion loss and back reflection (ORL).



Example of Setup



Example of an OTDR trace

BOBCAT OTDR

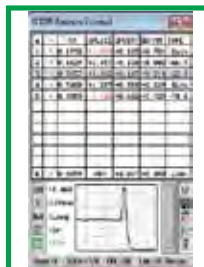
The Hand Held Bobcat OTDR has a 32db dynamic range and a short dead zone for testing networks from FTtx up to the metro environment. It has an easy to read color display with fault finder, construction and expert/manual modes of operation. The OVP is shipped with software for generating complete and professional documentation with the ability to include scope images and loss test results. Take advantage of the Bluetooth feature that allows operation via a compatible Android device using the free Android App. This OTDR is the perfect tool for basic link troubleshooting and is affordable enough for every truck, office or tool kit.



OVP-850



Loss Test Set



Event Analysis Screen

FEATURES:

- Lowest Cost Color OTDR
- Free Android OTDR App
- 32 dB Dynamic Range
- Short Dead Zone
- Trace Comparison with Trace Overlay
- Interactive Event Table with Pass/Fail Feature
- Fault Finder/Construction/Expert Modes
- Bright Color Display
- Onboard Memory for 1000 Traces
- Onboard, Context Sensitive Help
- Rugged Enclosure with Protective Boot

Contact your FIS Sales Associate for a free OTDR Android™ app.



Android™ Phone & Tablet compatible

Each Unit Includes: Universal Power Adapter with US, UK, Continental Europe and Australian plugs, interchangeable FC/ST/SC Adapters for each OTDR port, Windows®/Telcordia SR-4731 compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION	PRICE
OVP-1310-DR	Single Wavelength - Singlemode 1310nm with VFL and LTS - Android™ Compatible	2,995.00
OVP-8513-DR	Dual Wavelength - Multimode 850/1300nm with VFL and LTS - Android™ Compatible	3,495.00
OVP-1315-DR	Dual Wavelength - Singlemode 1310/1550nm with VFL and LTS - Android™ Compatible	3,495.00
OVPQUAD-DR	Quad Wavelength - MM/SM 850/1300/1310/1550 with LTS - Android™ Compatible	5,495.00

ACCESSORIES

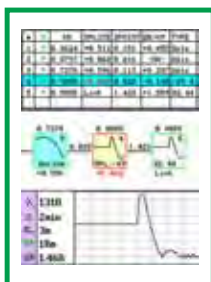
PART #	DESCRIPTION	PRICE
F1-OVXHRDCSE	Hard Transit Case for OVP and OVX	\$100.00
OVP-BC	Auxiliary Charger Kit	100.00
OVX-ADAPTERSET	(1) SC, (1) ST, (1) FC Adapters for OVX and OVP Series	175.00

BOBCAT² OTDR

The Bobcat 2 is our newest high performance Optical Time Domain Reflectometer. The FIS OVR has touch screen capability, with 36dB dynamic range and project management database. It displays results in standard trace and event table views and displays networks in a schematic view. The FIS OVR includes video scope feature with probe and displayed measurement zones for connector end face grading according to IEC61300-3-35. The OVR supports Bluetooth operation via our free Android app which allows geotagging of traces and easy file sharing with e-mail. This OTDR also performs macro bend analysis and bi-directional analysis. Use the supplied Software package to view traces or produce professional reports.



OVR-8513



Event Analysis Screen



Video Scope with IEC 61300-3-35

FEATURES:

- Touch Screen
- 36 dB Dynamic Range
- Schematic Event Analyzer
- Project Management Database
- Intergrated Video Scope
- IEC61300-3-35 Pass/Fail Video Scope Grading
- Free Android OTDR App for Bluetooth Operation
- Dual Trace Capability for Macro Bend and Bi-directional Analysis
- Power Meter, CW Source Included (No PM on Quad OTDRs)
- VFL Available

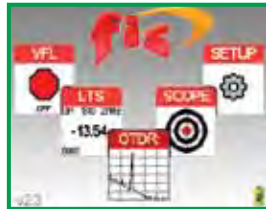
PART #	DESCRIPTION	PRICE
OVR-8513	850/1350nm OTDR with Video Scope/Probe and Loss Test Set	\$4,595.00
OVR-1315	1310/1550nm OTDR with Video Scope/Probe and Loss Test Set	4,595.00
OVR-QUAD	850/1300/1310/1550nm OTDR with Video Scope and Probe	6,495.00

ADVANCED OTDR

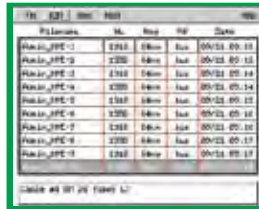
The FIS Advanced Hand Held OTDR has up to 39dB dynamic range with a 1 meter dead zone. It is ideal for testing PON systems or links up to 240km. The unit has an integrated power meter, stable light source, video scope and a visual fault locator, making it a complete testing system, with an extremely intuitive operating system to keep the learning curve as short as possible. This unit stores ~500 traces and 10,000 power meter measurements which can be downloaded to a USB flash drive or through a USB cable. It is shipped with Windows®/Telcordia SR-4731 compatible software that generates complete and professional reports with the ability to include scope images and loss test results. Models are available that include an active 1625nm port or up to four ITU standard CWDM wavelengths.

FEATURES

- No Boot Up Delay "Instant On"
- Up to 39dB Dynamic Range
- 1 Meter Dead Zone
- Interactive Event Table with Pass/Fail Feature
- Fault Finder/Construction/Expert Modes
- Bright Color Display
- Onboard Memory for ~500 Traces
- Onboard, Context Sensitive Help
- Rugged Enclosure with Protective Boot
- SM, MM, Triple and Quad Units Available
- USB Flash Drive Port and Mini USB Port
- Long Battery Life



New Home Screen



New File Management Screen



OVX-1315-LTS



Each Unit Includes: Universal Power Adapter with US, UK, Continental Europe and Australian plugs, Interchangeable FC/ST/SC Adapters for each OTDR and Power Meter Port, Windows®/Telcordia SR-4731 compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION	PRICE
OVX-8513-LTSE	850/1300nm with VFL + Optical Loss Test Set	\$4,995.00
OVX-1315-LTSE	1310/1550nm with VFL + Optical Loss Test Set	4,995.00
OVX-1315-EXT	39dB 1310/1550nm OTDR with VFL + Optical Loss Test Set NEW	5,995.00
OVX-QUAD-LTSE	850/1300/1310/1550nm with VFL + Optical Loss Test Set	6,995.00
OVX-131516-ACTLTSE	1310/1550nm and Active 1625nm with VFL + Optical Loss Test Set	6,495.00
OVX-1315-8CA	1310/1550 OTDR with 8 Channel CWDM Analyzer, VFL and LTS	7,495.00
OVX147/149/151/153CWDM	CWDM OTDR and Light Source with VFL and Broadband Power Meter	7,995.00
OVX155/157/159/161CWDM	CWDM OTDR and Light Source with VFL and Broadband Power Meter	7,995.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
OVX-USB	500MB USB Flash Drive loaded with Trace Viewing Software	\$19.95
F1-VPMUSB	200x Probe (OVX Compatible)	725.00
F1-OVXHRDCASE	OVX OTDR Hard Case	100.00
OVXADAPTERSET	(1) SC, (1) ST, (1) FC Adapters for OVX and OVP Series	175.00
F1-OVXCASE	Soft Case with Shoulder Strap	99.00

FIS HAND HELD OPTICAL SPECTRUM ANALYZER

The FIS Hand Held Optical Spectrum Analyzer offers full featured analysis of DWDM and CWDM systems in a truly portable package. This OSA has a super-fast acquisition time of two scans per second, and Pass/Fail feature with an easy to read color display. The OSX offers features such as Power Tilt for DWDM channel equalization and Gain Tilt to adjust EDFA gain flatness. The OSA will store up to 1,000 tests and is shipped with Windows® compatible software for fast and easy reporting.

FEATURES

- Easy Operation with Help Mode
- 50 or 100 GHz DWDM and 20nm CWDM Channel Spacing
- Fast, with two scans per second
- Over 80 Channels DWDM and 18 CWDM on the ITU Grid
- Bar Graph and Table Displays
- 4" Bright Color Display
- Real Time operation
- Rugged Case with Impact Resistant Boot
- 8 hour Battery Life
- Video Scope capability

Each Unit Includes: Universal Power Adapter, Interchangeable FC/SC Adapters, Windows® Compatible Software, USB Cable, Manual and Rubber Boot.

PART #	DESCRIPTION	PRICE
OSR-20	9 Channel CWDM Hand Held Optical Spectrum Analyzer 1310nm and 1471nm-1611nm NEW	\$2,995.00
OSR-80C	C Band Hand Held Optical Spectrum Analyzer with Touch Screen, 1531nm-1566.2nm NEW	4,495.00
OSX-80C	C-Band Optical Spectrum Analyzer	5,495.00
OSX-80L	L-Band Optical Spectrum Analyzer	5,495.00
OSX-20	CWDM Optical Channel Analyzer	5,495.00



OSX-80C





THE MAXTESTER OTDR SERIES

The MAX-700B series is the first tablet-inspired OTDR line that is handy, lightweight and rugged enough for any outside plant environment. With a 7-inch, outdoor-enhanced touchscreen –the most efficient handheld display in the industry– it delivers an unprecedented user experience. Its intuitive Windows-like GUI ensures a fast learning curve. Plus, its new and improved OTDR 2.0 environment offers icon-based functions, instant boot-up, automatic macrobend finders as well as improved auto and real-time modes.

FEATURES

- Handy, lightweight, powerful, tablet-inspired design
- 7-inch, outdoor-enhanced touchscreen - Biggest in the handheld industry
- 12-hour autonomy
- Rugged design built for outside plant
- iOLM-ready: intelligent and dynamic application that turns complex OTDR trace analysis into a one-touch task (available only on the 715B and 720B models)



MAX-715B OTDR

Optimized for the P2P testing and troubleshooting of FTTx architectures, and ideal for testing short fibers (e.g., inside a CO, FTTx drop cable or FTTA/DAS installations) (30 dB).

PART #	DESCRIPTION	PRICE
MAX-715B-M1-XX	MAX-715B, Last Mile SM OTDR 1310/1550nm, 30/28 dB (9/125µm)	\$4,795.00
MAX-715B-M2-XX	MAX-715B, Last Mile SM OTDR Port 1: 1310/1550nm, 30/28 dB (9/125µm) Port 2: Filtered 1625nm, 28 dB (9/125µm)	6,995.00
MAX-715B-M3-XX	MAX-715B, Last Mile SM OTDR 131/1550/ 1625nm, 30/28/28 dB (9/125µm)	6,695.00
PM2X-XX	Power Meter ONLY (GeX detector) With FOA-XX: Connector Adapter	695.00
VPM2X-XX	VFL + Power Meter - Visual Fault Locator (650nm) With 2.5mm Universal Adapter - Power Meter (GeX detector) With FOA-XX: Connector Adapter	930.00
RF	Built-in Wi-Fi and Bluetooth Capability	225.00

MAX-730B OTDR

Installation and maintenance OTDR designed to test through optical splitters (1x64) and short, P2P metro up to 80 km, with a 1625-nm, out-of-band, live testing port (39 dB).

PART #	DESCRIPTION	PRICE
MAX-730B-M1-XX	MAX-730B, Last Mile SM OTDR 1310/1550nm, 30/28 dB (9/125µm)	\$4,795.00
MAX-730B-M2-XX	MAX-730B, Last Mile SM OTDR Port 1: 1310/1550nm, 30/28 dB (9/125µm) Port 2: Filtered 1625nm, 28 dB (9/125µm)	6,995.00
MAX-730B-M3-XX	MAX-730B, Last Mile SM OTDR 131/1550/ 1625nm, 30/28/28 dB (9/125µm)	6,695.00
PM2X-XX	Power Meter ONLY (GeX detector) With FOA-XX: Connector Adapter	695.00
VPM2X-XX	VFL + Power Meter - Visual Fault Locator (650nm) With 2.5mm Universal Adapter - Power Meter (GeX detector) With FOA-XX: Connector Adapter	930.00
RF	Built-in Wi-Fi and Bluetooth Capability	225.00

MAX-720B OTDR

Efficient testing of closely spaced events, such as patchords and patch panels in COs, and optimized for the P2P testing of any access network (36 dB).

PART #	DESCRIPTION	PRICE
MAX-720B-M1-XX	MAX-720B, Access SM OTDR 1310/1550nm, 36/34 dB (9/125µm)	\$5,595.00
PM2X-XX	Power Meter ONLY (GeX detector) With FOA-XX: Connector Adapter	695.00
VPM2X-XX	VFL + Power Meter - Visual Fault Locator (650nm) With 2.5mm Universal Adapter - Power Meter (GeX detector) With FOA-XX: Connector Adapter	930.00
RF	Built-in Wi-Fi and Bluetooth Capability	225.00

Models	MAX-715B	MAX-720B	MAX-730B
Configurations	1310/1550 nm 1310/1550 nm and 1625 live*	1310/1550 nm	1310/1550 nm 1310/1550 nm and 1625 live*
Dynamic range at 1310/1550/1625	30/28/28 dB	36/34 dB	39/37/37 dB
ADZ/EDZ	1m / 4 m	0.8m / 3.5 m	
PON	N/A	N/A	Up to 1 x 128

*** SEE PAGE 45 FOR VIDEO INSPECTION PRICES**

EXFO AXS-110 OTDR

The handheld AXS-110 Access OTDR is also ideal for premise testing. User-friendly with one-touch testing and summary screen. Complete connectivity flexibility using USB stick or RJ-45/USB cable data download. Bi-directional analysis and live templating for OTDR testing. The AXS-110 Multimode OTDR is optimized for enterprise testing. FastReporter software with powerful batch processing is available.



AXS110-12CD

FEATURES

- Dynamic Range - 24/25/32/30dB (850/1300/1310/1550nm)
- Tests through High-Port-Count Splitters
- Optional Power Meter, IP Testing and Fiber Inspection Probe
- Summary Screen to view all results
- Exceptional 0.8 meter Event Dead Zone

PART #	DESCRIPTION	PRICE
AXS-110-12CD-23B-EI-EUI91	AXS Quad 850/1300/1310/1550nm OTDR, SC Adapter	\$9,795.00
AXS-110-12CD-EI-EUI91	AXS Dual 850/1300nm OTDR, 24/25dB, SC Adapter	6,845.00



EXPERTISE REACHING OUT

EXFO FTB-1 MODULAR OTDR PLATFORM

The FTB-1 Platform is an open testing solution for network infrastructure construction and troubleshooting. The FTB-1's built-in intelligence empowers front-line technicians to take field-testing efficiency to the next level. Thanks to a highly "connected" set of tools - including Update Manager and compatibility with the EXFO Connect environment, which provides end-to-end operational visibility and centralized reporting capabilities throughout the entire test instrument pool - the FTB-1 delivers maximum return on your investment.

FEATURES

- Wide 7" TFT Color Touch Screen
- Optional Built-in Bluetooth and Wi-Fi
- 1 Gig Ethernet and 2 - USB 2.0 ports
- Windows® Remote Assistance and Remote Control Features
- Intel ATOM Processor Running Windows® Embedded Standard OS
- Optional EXFO Fiber Inspection Probe Video Connector Interface
- Full Hybrid Touch and Keypad to Suit any Environment



FTB-1 with iOLM



EXFO FTB-1 (POPULAR CONFIGURATIONS)

PART #	DESCRIPTION	PRICE
TK1S1RFFTB720023BEIEUI91	1310/1550nm 35/32dB, Wi-Fi/Bluetooth, SC/UPC	6,630.00
TK1S1RFFTB730023BEIEUI91	1310/1550nm 39/37dB, Wi-Fi/Bluetooth, SC/UPC	8,610.00
TK1S1RFVPM354FTB730023BEIEUI91	1310/1550nm 39/37dB, Wi-Fi/Bluetooth, VFL, PM, SC/UPC	9,875.00
TK1S1FTB72012CD23BEIEUI91	850/1300/1310/1550nm 26/25/35/32dB, SC/UPC	10,455.00

Build Your Own FTB-1

TK-1-700 - XX - XX - XX - XX - XX - XX - XX - XX - XX - XX

Model
TK-1-700 Mainframe - (\$1,795 without module)
(\$1,640 with module)

Display
S1 = TFT Active Screen (Standard)
S2 = Outdoor Enhanced Screen (\$980)

Memory
XMEM = 16 GB Internal Memory - Flash (\$230)

Battery
XBTY = Extended Life Rechargeable Lithium-Ion Battery (\$110)

Wi-Fi/Bluetooth Option
RF = With RF Capability - Wi-Fi and Bluetooth (\$225)

Power Meter
VFL1 = Visual Fault Locator Only (\$780)
VPM3 = VFL; Power Meter; InGaAs Detector (\$1,265)
VPM3-CWDM = VFL; Power Meter; InGaAs Detector; CWDM Wavelengths Calibrated - From 1270 to 1610nm (\$1,675)

Connector Adapter - Included
FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC
FOA-32 = ST: ST/PC, ST/SPC, SC/UPC, SC/APC
FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC

Software Option
IPT = Ping Traceroute Software (\$160)

Digital Inspection Probe
FP410B-XX = Inspection Probe 200x/400x, Manual Focus, No Auto Analysis (\$1395)
FP420-XX = Inspection Probe 200x/400x, Manual Focus, Auto Center, Auto Analysis (\$2065)
FP430B-XX = Inspection Probe 200x/400x, Auto Focus, Auto Center, Auto Analysis (\$2515)
XX-APC or UPC must be specified

OTDR Adapters XX - (Place EA Before the Adater for APC Polish or EU for UPC Polish) - Included in Module Price
XX-EUI-89 = FC Adapter
XX-EUI-90 = ST Adapter
XX-EUI-91 = SC Adapter

OTDR Module(s)
FTB-720-023B-XX = SM 1310/1550nm, 36/34dB (\$4,765)
FTB-730-023B-XX = SM 1310/1550nm, 39/37dB (\$6,745)
FTB-720-12CD-23B-XX-XX = MM/SM 850/1300/1310/1550nm, 27/26/36/34dB (\$9,085)
FTB-720-023B-04-XX = Port 1: 1310/1550, 36/34dB
Port 2: Filtered 1625nm, 34dB
* for live fiber testing (\$9,895)
FTB-730-023B-04-XX = Port 1: 1310/1550, 39/37dB
Port 2: Filtered 1625nm, 34dB
* for live fiber testing with in-line power meter (\$11,515)
FTB-730-034B-XX = SM 1550/1625nm, 37/37dB (\$9,265)
FTB-730-236B-XX = SM 1310/1490/1550nm, 39/35/37dB (\$10,715)

Other configurations and modules available – contact a FIS sales associate for more details.



OPTICAL, ETHERNET AND MULTISERVICE TESTER

An all-in-ONE Ethernet/optical solution for field technicians installing, testing and troubleshooting FTx, fronthaul, backhaul, small-cell, DAS, remote radio head and data center networks, in addition to OTN, SONET/SDH, Fiber Channel, GigE and 10 GigE, CPRI/OBSAI and SyncE/1588 PTP services, with the added support of OTDR and iOLM capabilities.

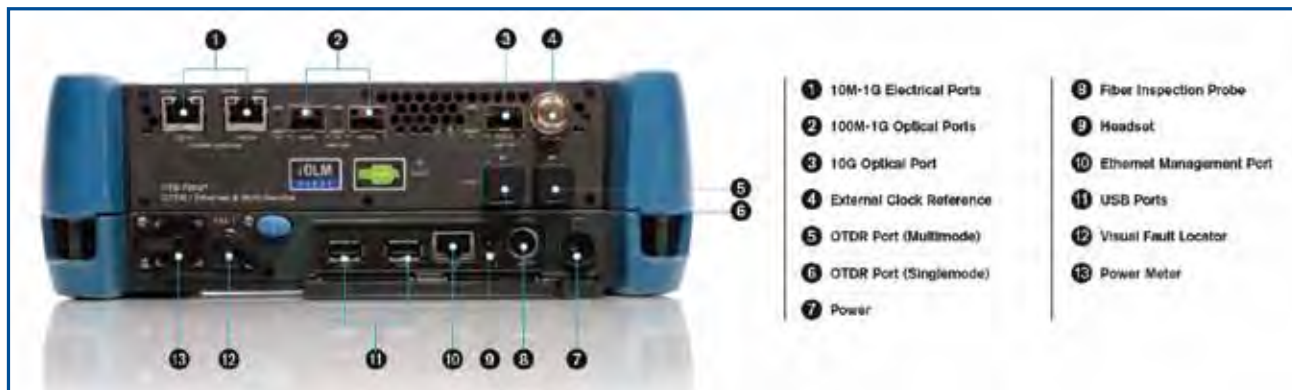


OPTICAL KEY FEATURES AND BENEFITS

- Dynamic range up to either 36 or 39 dB
- Test through high-port-count splitters (up to 1x128)
- Event dead zone as low as 0.8 meters
- iOLM-ready: one-touch multiple acquisitions, with clear go/no-go results presented in a straightforward visual format
- Integrated tool combines a visual fault locator, inspection probe, broadband power meter and a CW source mode

MULTISERVICE KEY FEATURES AND BENEFITS

- SONET/SDH, OTN and Ethernet interfaces up to 11.3 Gbit/s
- Packet synchronization turn-up and troubleshooting (SyncE/1588 PTP)
- FTTA validation (CPRI and OBSAI up to 3.1 Gbit/s via BER testing)
- Efficiently assess Fiber Channel networks with best-in-class coverage via 1x, 2x, 4x, 8x and 10x interfaces OTN testing (as per ITU-T G.709)
- Ethernet service activation with bidirectional EtherSAM (ITU-T Y.1564) and RFC 2544 test suites, multistream traffic generation, Through mode and BER testing



CONTACT FIS FOR CUSTOM CONFIGURATION PRICING AND/OR TO ARRANGE A DEMONSTRATION.



EUI-90



EUI-91



FOA-54

EXFO ACCESSORIES

PART #	DESCRIPTION	PRICE
FPSA	ConnectorMax Analysis Software	\$695.00
FPSAPC	ConnectorMax Analysis Software for PC	695.00
Oi	OTDR software and the intelligent Optical Link Mapper base software	1,995.00
FOA-32	ST Adapter for Power Meter	70.00
FOA-54	SC Adapter for Power Meter	70.00
FOA-22	FC Adapter for Power Meter	70.00
FOA-98	LC Adapter for Power Meter	140.00
FOA-U12	Universal 1.25mm Adapter for Power Meter	150.00
FOA-U25	Universal 2.5mm Adapter for Power Meter	150.00
EUI-89	FC/UPC Source Adapter	95.00
EUI-90	ST/UPC Source Adapter	95.00
EUI-91	SC/UPC Source Adapter	95.00

*Call for other adapter styles or APC configurations



EXFO FTB-200v2 MODULAR OTDR

The FTB-200v2 is the first true compact platform for the technician. Start testing triple-wavelength insertion loss at the CO or testing data integrity at the core, this unit has the power, speed and modularity. Many configurations and modules available, contact an FIS sales associate for additional information and specifications.

FEATURES

- Full Backward Compatibility with Previous Modules
- Provides Optional Built-in Bluetooth and Wi-Fi
- Provides 1 Gig Ethernet and 3 - USB 2.0 Ports
- Windows® Remote Assistance and Remote Control Features
- Intel ATOM Processor Running Windows® Embedded Standard OS
- Provides EXFO Fiber Inspection Probe Video Connector Interface

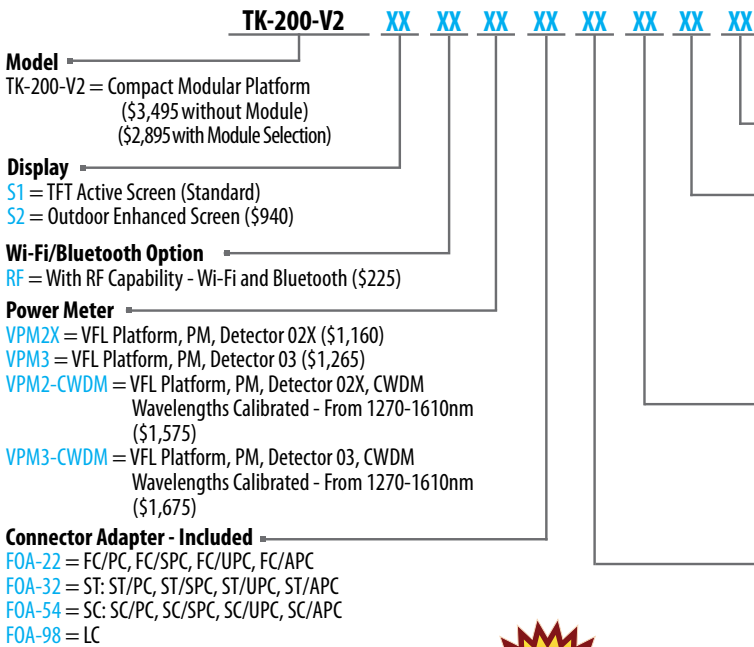
EXFO FTB-200 (POPULAR CONFIGURATIONS)

PART #	DESCRIPTION	PRICE
TK200S1RFD3EIEUI91	1310/1550nm, 36/34 dB, Wi-Fi/Bluetooth, Dual Module, SC/UPC	\$7,615.00
TK200S1RFD27EIEUI91	1310/1550/1625nm, 39/37/37 dB, Wi-Fi, Bluetooth, Tri-Wave SM, SC/UPC	14,005.00
TK200S1RFD15EIEUI91	850/1300/1310/1550, 27/26/36/34 dB, Wi-Fi, Bluetooth, Quad Module, SC/UPC	11,935.00
TK200S1VPM2XFOA-54D15EIEUI91	850/1300/1310/1550nm, 27/26/36/34 dB MM/SM, PM, VFL, SC/UPC	12,870.00



FTB-200v2 with iOLM

Build Your Own FTB-200v2



Software Option

iPT = Ping Traceroute Software (\$160)

Digital Inspection Probe

- FP410B-XX = Inspection Probe 200x/400x, Manual Focus, No Auto Analysis (\$1,395)
 - FP420-XX = Inspection Probe 200x/400x, Manual Focus, Auto Center, Auto Analysis (\$2,065)
 - FP430B-XX = Inspection Probe 200x/400x, Auto Focus, Auto Center, Auto Analysis (\$2,515)
- XX- APC or UPC must be specified

OTDR Adapters

- XX - (Place EA Before the Adapter for APC Polish or EU for UPC Polish) - Included in Module Price
- XX-EUI-89 = FC Adapter
- XX-EUI-90 = ST Adapter
- XX-EUI-91 = SC Adapter

OTDR Module(s)

- Standard**
 - D3 = Dual SM 1310/1550nm, 36/34dB (\$4,495)
 - D15 = Quad 850/1300/1310/1550nm, 27/26/36/34dB (\$8,815)
 - D25 = Dual SM 1310/1550nm, 39/37dB(PON) (\$6,745)
 - D17 = Dual SM 1310/1550nm, 42/41dB(Long Haul) (\$7,375)
 - D21 = Dual SM 1310/1550nm, 45/43dB(Long Haul) (\$11,155)
 - FTTx**
 - D27 = Tri-Wave 1310/1550/1625nm, 39/37/37dB (\$10,885)
 - D28 = Tri-Wave 1310/1490/1550nm, 39/35/37dB (\$10,715)
 - CWDM**
 - D32 = CWDM SM 1470/1490/1510/1530nm (\$12,150)
 - D33 = CWDM SM 1550/1570/1590/1610nm (\$12,150)
 - D32 = CWDM SM 1270/1290/1310/1330nm (\$13,050)
 - D32 = CWDM SM 1350/1410/1430/1450nm (\$13,050)
- Intelligent Optical Mapper Base Software**
 Choose iOLM or traditional trace software option - no charge
 Choose both iOLM and OTDR Trace software package - \$1,995



EXFO Optical Spectrum Analyzer (OSA) / Optical Channel Analyzer (OCA)

EXFO flexible optical spectrum analyzer for FTB200v2 platform. Accomplish accurate DWDM, CWDM and hybrid network testing.

OSA FEATURES

- Entry-level optical spectrum analyzer for a variety of field applications
- Low cost of ownership
- Intuitive user interface
- Portable

OSA FEATURES

- Optimized for power and wavelength measurements
- Easy-to-use via built-in configurations
- Ideal for cable operators
- Perfect for CFP power measurement
- Future proof: upgradable to a full OSA via software key

PART #	DESCRIPTION	PRICE
FTB-5230S	Optical Spectrum Analyzer	\$13,995.00
FTB-5230S-OCA	Optical Channel Analyzer	11,500.00



ANRITSU MT9090 HANDHELD OTDR MODULE - MU909014x/15x

The Network Master MT9090A OTDR may be small but don't let that fool you. It features 2cm resolution, 1m dead zones and up to 38dB dynamic range. Two or three wavelength versions for both installation (1310/1550nm) and maintenance (filtered 1650 nm or 1625nm) are available to cover all your FTtx, RRRH, DAS and general fiber testing needs. All MT9090A kits include mainframe, OTDR module with Fiber Visualizer software, battery, charger, soft case, rubber boot and connector adapter.

Fiber Visualizer software now standard on all MT9090A OTDRs to simplify operation and generate reports directly from the unit.



MT9090A Shown with Protector Option



PART #	DESCRIPTION	PRICE
Z1489A	1310/1550nm (37/36dB) OTDR, VFL, Protector, Power Meter -5 to -50dB	\$6,030.00
Z1490A	1310/1550nm (32/31dB) OTDR, VFL, Protector, Power Meter -5 to -50dB	5,530.00
Z1490B	1310/1550+1650nm (38/37/35dB) OTDR, PON PM/LS with Protector	7,930.00
Z1490C	1310/1550+1650nm (32/31/32dB) OTDR, PON PM/LS with Protector	7,430.00

MT9090 ACCESSORIES

PART #	DESCRIPTION	PRICE
J0617B	Anritsu Replacement FC Adapter	\$95.00
J0618D	Anritsu Replacement ST Adapter	95.00
J0619B	Anritsu Replacement SC Adapter	95.00
J1534A	Anritsu SC/UPC-LC/UPC Adapter	119.00
G0293A	Connector Inspection 400x Microscope, USB, 8 tips	1895.00
B0600B	Hard Case for MT9090	300.00
G0203A	Replacement AC Adapter/Charger	85.00
G0202A	Replacement NiMH Battery Pack	57.00

ANRITSU CMA5000A

A powerful Windows-based unit, with large 10.4" color display, 40GB hard drive, touch screen and hard key user interfaces has several optics options to cover any testing needs from Singlemode to Multimode, from 24 to 50dB. Includes Windows® XP Pro Desktop and built-in DVD/CD-RW drive. Additional OTDR packages available.

CMA5000A MAINFRAMES (MODULAR UNIT)

PART #	DESCRIPTION	PRICE
5000A-150-DC	Small Bay - 2 Module Capacity	\$6,875.00
5000A-250-DC	Medium Bay - 4 Module Capacity	7,375.00

MULTIMODE MODULES - (Specify Adapter Type When Ordering)

5266-000-OTDR	Multimode 24/26dB 850/1300nm	\$6,975.00
5262-210-OTDR	Multimode 24/26dB 850/1300nm PM and LS + Singlemode 40dB 1310/1550nm	15,375.00

SINGLEMODE MODULES - (Specify Adapter Type When Ordering)

5225-000-OTDR	Singlemode 37/36dB 1310/1550nm	\$7,175.00
5225-210-OTDR	Singlemode 37/36dB 1310/1550nm PM and LS	8,275.00
5225-211-OTDR	Singlemode 37/36dB 1310/1550nm PM, LS and VFL	8,675.00
5245-000-OTDR	Singlemode 43/45dB 1310/1550nm	11,975.00
5245-210-OTDR	Singlemode 43/45dB 1310/1550nm PM and LS	13,075.00
5245-211-OTDR	Singlemode 43/45dB 1310/1550nm PM, LS and VFL	13,475.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
NETWORKS	Emulation Software (\$695.00 with purchase of unit)	\$995.00
5000A-HCase-DLX	Deluxe SBA/MBA Hard Case with module storage, CMA5000A	1,200.00
5000A-SBATOTE	CMA5000a SBA Softcase	200.00
USB-KEYBD-US	USB keyboard with trackball	540.00
5000A-AC	Replacement AC Adapter	330.00
CORD-C5-US	Power cable	50.00



MT9090A - Top View



CMA5000A

FEATURES

- Modular, Multi-layer Test and Measurement Platform
- 10.4" LCD touch screen
- Full Range of Modules: OTDR, PMD, CD, Ethernet, SONET, OSA
- Dedicated Testing Modes Simplify OTDR Operation



Top View
Medium Bay



Bottom View
Small Bay

FIS IS THE NATION'S LARGEST ANRITSU STOCKING DISTRIBUTOR

ANRITSU MT9083A/B/C Series 2 FEATURES

- Larger (7 inch), higher resolution (800x480) display with LED backlight
- Longer battery operation time: Up to 12 hours
- Wider operating temperature range: -10 to 50oC
- New shortcut keys to simplify operation: quickly change between trace and event table or access set-ups and mass storage
- Lighter – now only 5.7lbs!
- Fiber Visualizer software to simplify PASS/FAIL analysis and PDF reports directly from the OTDR

NOW INCLUDES A FULL 3 YEAR WARRANTY AND NETWORK SOFTWARE WITH THE PURCHASE OF MT9083 FROM FIS



G0293A

FIS EXCLUSIVE OFFER
PURCHASE ANY MT9083 AND RECEIVE =



FREE



&

FREE



Probe Screen Shot



The ACCESS Master MT9083 Series is designed to be the perfect tool for any application - from 50ft fiber drops to 60 mile backbone cables. Singlemode to Multimode. All models feature 0.8m dead zones (typ), standard light source, connector inspection microscope support, USB data storage, long battery life and an enhanced indoor/outdoor display for direct sunlight viewing.

Each Unit Includes: Enhanced display, rugged display cover and softcase. Deluxe kits also include PM, VFL and NETWORKS PC software. When ordering specify adapter.

MT9083A2

PART #	DESCRIPTION	PRICE
Z1254A2	SM 39/37.6dB 1310/1550nm Basic Kit	\$7,880.00
Z1094A2	MM/SM 29/28dB 850/1300/1310/1550nm Basic Kit	11,480.00
Z1255A2	SM 39/37.6dB 1310/1550nm Deluxe Kit	9,855.00
Z1371A2	MM/SM 29/28dB 850/1300/1310/1550nm Deluxe Kit	13,455.00

MT9083B2

Z1093B2	SM 42/41dB 1310/1550nm Basic Kit	\$10,175.00
Z1094B2	MM/SM 29/28/42/41dB 850/1300/1310/1550nm Basic Kit	11,980.00
Z1369B2	SM 42/41dB 1310/1550nm Deluxe Kit	11,655.00
Z1371B2	MM/SM 29/28/42/41dB 850/1300/1310/1550nm Deluxe Kit	13,955.00

MT9083C2

Z1093C2	SM 46/46dB 1310/1550nm Basic Kit	\$10,680.00
Z1369C2	SM 46/46dB 1310/1550nm Deluxe Kit	12,655.00

ADAPTERS

PART #	DESCRIPTION	PRICE
J0617B	Anritsu Replacement FC Adapter for MT9083	\$95.00
J0618D	Anritsu Replacement ST Adapter for MT9083	95.00
J0619B	Anritsu Replacement SC Adapter for MT9083	95.00
J1534A	SC/UPC - LC/UPC Adapter for MT9083	119.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
MT9083A-002	Visual Fault Locator (VFL) Option	\$550.00
MT9083A-007	SM/MM Optical Power Meter (UPC/APC, +6 to -67 dBm)	750.00
B0582A	Soft Carry Case for MT9083A/B/C Series	180.00
B0583A	Hard Transit Case for MT9083A/B/C Series (suitcase style)	330.00
J1295	Cigarette Lighter Power Cord	50.00
G0293A	Video inspection probe with USB connector (incl. FC/ST/LC/SC/2.5mm/1.25mm/APC tips)	1,895.00



M210

NOYES M210 OTDR

NOYES M210 OTDR from AFL combines ease of use (Touch and Test™) and multi-functionality in a field-rugged, hand-held package. Integrated OTDR and OPM functionality and inspection capability reduce setup and testing time and simplify documentation, reducing testing and administration costs.

With singlemode dynamic ranges of up to 30 dB and multimode dynamic ranges of 26 dB, the M210 is ideal for testing, troubleshooting and documenting enterprise, LAN/WAN, campus and military singlemode and multimode (62.5 and 50 micron) fiber networks.

The M210 supports visual inspection per IEC 61300-3-5 visual inspection practices using a NOYES DFS1 Digital FiberScope providing the user the ability to view and document connector end-face images with their OTDR traces and loss/power measurements

FEATURES

- Built in Optical Power Meter - Easily test and store both Tier 1 and Tier 2 results in one tester
- Built in Visual Fault Locator (VFL) enables technicians to quickly identify fiber faults within OTDR deadzone
- Crisp bright display for indoor/outdoor viewing
- Inspection capable with DFS1 Digital FiberScope

Each Unit Includes: A rugged, soft-sided carry case with shoulder strap, 110/220v AC power adapter with country-specific power cord, user guide, and various adapters.

PART #	DESCRIPTION	PRICE
M210-20U-01	Dual Wavelength - Singlemode (1310/1550) OPM, VFL in soft case	\$4,796.00
M210-22U-01	Dual Wavelength - Multimode (850/1300) OPM, VFL in soft case	5,540.00
M210-25U-01	Quad Wavelength – (850/1300/1310/1550), OPM, VFL in Soft Case	7,196.00
M210-25K-01-HC2	QUAD Certification Kit (Tier 1 and 2): M210 QUAD, OLS4, DFS1* in Hard Case	11,386.00
M210-25K-01-HC1	QUAD Test and Inspection Kit (Tier 2): M210 QUAD, DFS1* in Hard Case	9,090.00
DFS10004XU	DFS1 USB Digital Fiber Inspection Kit	1,895.00

APPLICATIONS

- Tier 2 testing of premises networks
- FTTx PON certification and troubleshooting
- Fast fault location
- Splice verification
- Network documentation
- ST, SC, FC Adapter Included

M310 DATA CENTER OTDR (NOT PICTURED)

NOYES M310 OTDR from AFL is specifically designed to address the technical challenges associated with today's Data Center architectures and network speeds. Inherent in today's Top of Rack (TOR) or End of Rack (EOR) data center configurations are ultra-short fiber links, more numerous patch panels and cross-connections. At the same time bandwidth demand is accelerating the deployment of 40 and 100G Ethernet. Network uptime is critical in Data Center networks; being able to pinpoint faults to an end of a jumper cable and get the network back on line is crucial.

The M310 combines ease of use (Touch and Test™) with industry leading specifications in a field rugged, hand-held package. Integrated OTDR, OPM and VFL functionality with inspection capability simplifies setup, testing and troubleshooting and reduces network outage time .

With deadzones less than 1 m and dynamic ranges of up to 38 dB the M310 is ideal for testing, troubleshooting and documenting Data Center, Enterprise, SAN/LAN/WAN, co-location, campus, Department of Transportation and military singlemode and multimode (62.5 and 50 micron) fiber networks.

PART #	DESCRIPTION	PRICE
M310-25U-01-HC	M310 QUAD, 850/1300/1310/1550, OPM, VFL in Hard Case	\$9,896.00
M310-22U-01-HC	M310 MM OTDR, 850/1300, OPM, VFL in Hard Case	7,496.00
M310-20U-01-HC	M310 SM OTDR, 1310/1550, OPM, VFL in Hard Case	7,686.00



NOYES M700

FEATURES

- Dynamic Range up to 40dB
- Integrated OPM and VFL (650nm)
- Full Auto, Expert, and Real-Time OTDR Test Modes
- Pass/Fail Event and Link Thresholds Settings
- 6.5-inch Transflective (indoor/outdoor) Touch Screen Display
- Tool-free, Switchable Test Port Adapters
- Rechargeable Li-Ion battery (> 8 hours) or AC power
- USB Host and Function Ports
- Internal (1,000s test results) and USB Storage
- Windows® Compatible Software





NOYES OFL280-10X FLEXTESLER OTDR

The NOYES OFL280 FlexTester family offers an unmatched combination of fiber optic test functions, ease-of-use, portability, and value. All OFL280 FlexTester models include an integrated single-mode 1310/1550nm OTDR with PON-optimized and standard test modes, optical power meter, 1310/1550nm laser source, and visual fault locator.

For many users the two-wavelength OFL280-100 will provide the best balance of functionality and value. Testing at 1310 and 1550nm is normally sufficient to certify point-to-point or FTtx PON fibers and allows the detection of macro bends. The three-wavelength OFL280-101 and OFL280-102 models add 1625nm or 1490nm respectively. Testing at 1625nm allows testing of the L band. Testing at 1490nm is required by some network operators to certify FTtx PONs. The filtered, three-wavelength OFL280-103 can certify dark fibers at 1310/1550nm, fault-locate live FTtx PON fibers at 1625nm, and measure FTtx power levels at 1490 and 1550nm, all from a single test port.



Supplied Accessories

APPLICATIONS

- Construction testing of FTtx PONs and point-to-point metro and access networks
- High-resolution fault-location of dark or live FTtx fibers
- Splice and connection verification (loss and reflectance)
- Optical power and loss measurement with time-saving Wave ID

Each Unit Includes: A carry case, (1) SC and (1) FC adapter for the OTDR/OLS port, (1) 2.5 mm universal adapter for the OPM port, (1) 2.5mm universal adapter for the VFL port, One-Click Cleaner SC/ST/FC (2.5mm), USB cable (connects with Type A USB port on your PC), and AC power adapter with a country-specific power cord. Specify the connector ferrule finish (UPC or APC) at order entry time.

PART #	DESCRIPTION	PRICE
OFL280100U	1310/1550nm OTDR, OLS, OPM, VFL for out-of-service point-to-point and FTtx PON testing 34/32dB (UPC)	\$4,595.00
OFL280102U	1310/1490/1550nm OTDR, OLS, OPM and VFL 34/32/32dB (UPC)	6,195.00
OFL280103U	1310/1550/1625nm OTDR, OLS, OPM and VFL with ServiceSafe™ live fiber detection, 1625nm live PON OTDR, and integrated PON Power Meter 34/32/30dB (UPC)	6,995.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
2900-50-0002MR	FC adapter, OTDR/OLS port	\$60.00
2900-50-0003MR	SC adapter, OTDR/OLS port	60.00
2900-50-0004MR	ST adapter, OTDR/OLS port	60.00
2900-50-0006MR	LC adapter, OTDR/OLS port	94.00
2900-52-0001MR	FC adapter, OPM port	56.00
2900-52-0002MR	SC adapter, OPM port	56.00
2900-52-0003MR	ST adapter, OPM port	56.00
2900-52-0004MR	LC adapter, OPM port	67.00
2900-52-0005MR	2.5 mm adapter, OPM port	56.00
2900-52-0006MR	1.25 mm adapter, OPM port	56.00
2900-53-0001MR	2.5 mm adapter, VFL port	56.00
2900-53-0002MR	1.25 mm adapter, VFL port	56.00
8800-00-0072PR	Dust cap for UCI outputs	5.00
1400-01-0045	Soft carry case	50.00

The NOYES M700 from AFL Telecommunications is a compact, full-featured OTDR with an integrated Visual Fault Locator (VFL), an Optical Power Meter (OPM) capable of displaying up to three wavelengths simultaneously, and a large transreflective touch screen display suitable for both indoor and outdoor operation. The M700 is offered in four models: 1310/1550nm singlemode OTDR, 1310/1550/1625nm singlemode OTDR, 850/1300/1310/1550nm QUAD OTDR, and 850/1300/1310/1550nm Long Range QUAD OTDR.

Each Unit Includes: OTDR, AC Power Adapter, USB Flash Drive, PC Trace Analysis Software, (1) ST, (1) SC, (1) FC Adapter, Softcase and Cleaning Accessories.

PART #	DESCRIPTION	PRICE
M700-20U-01	Dual Wavelength, Singlemode, 1310/1550nm 40/38dB	\$7,800.00
M700-21U-01	Tri Wavelength, SM 1310/1550/1625nm 40/38/38dB	10,800.00
M700-24U-01	QUAD Wavelength, MM/SM, 850/1300/1310/1550nm (Long Range) 24/24/39/37dB	12,995.00
M700-25U-01	QUAD Wavelength, MM/SM, 850/1300/1310/1550nm 22/26/26dB	10,250.00

ACCESSORIES

M700-H1	Hard case with One-Clicks and Cletop	\$875.00
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OFL280

FEATURES

- Rugged, hand-held and light weight (0.8 kg / 1.8 lb)
- 0.8 m event dead zone, 3.5 m attenuation dead zone
- 34 dB dynamic range
- Fast Real Time OTDR mode
- Internal storage (>1000 OTDR traces in .SOR format)
- High-contrast display is clear and bright in any lighting
- Transfer test results to a PC via USB
- 10-hour operation, fast charge, Li-Ion battery



OPTIFIBER® PRO OTDR

OptiFiber® Pro OTDR is the industry's first enterprise OTDR built from the ground up to meet the challenges of enterprise fiber infrastructures. This fiber troubleshooting and certification tool turns any technician into a fiber expert, eliminates errors that occur when testing fiber, and its ultra-short dead zones enable testing of condensed, connector-rich fiber used in datacenters.

FEATURES

- Effectively test datacenter fiber with the least set-up and trace time
- Troubleshoot datacenter fiber links where short patch cables and dense connectors are common
- Smartphone user interface that allows anyone to perform expert fiber troubleshooting and certification
- Maximize return on investment by enabling customized user and project folder capabilities
- Reduce network downtime by quickly and precisely identifying faults on singlemode or multimode fiber
- Accelerate fiber certification with trace times as short as two seconds in Quick Test mode

PART #	DESCRIPTION	PRICE
OFF-100-M	Multimode OTDR for troubleshooting and extended certification	\$9,568.00
OFF-100-S	Singlemode OTDR for troubleshooting and extended certification	10,608.00
OFF-100-Q	Quad OTDR for troubleshooting and extended certification	14,976.00
OFF-100-MI	Multimode OTDR for troubleshooting and extended certification, includes fiber inspection kit	12,272.00
OFF-100-SI	Singlemode OTDR for troubleshooting and extended certification, includes fiber inspection kit	13,312.00
OFF-100-QI	Quad OTDR for troubleshooting and extended certification, includes fiber inspection kit	17,576.00



FLUKE DTX CABLE ANALYZERS

The DTX CableAnalyzer Series from Fluke Networks is the testing platform for today - and tomorrow. This revolutionary new future-proof platform significantly reduces total time to certify by improving every aspect of the testing process. The AC Wiremap feature validates twisted-pair cabling for Power over Ethernet services in accordance with TIA/EIA standards, even if a Midspan power supply is used.

FEATURES

- Exceeds Spec Requirements for Cat 5e/6/7 with Superior Level IV Accuracy
- 900 MHz Future-Proofs your Investment for Future Applications such as 10 Gigabit Ethernet, Class F and CATV
- Resident Fiber Modules let you Switch Between Copper and Fiber

PART #	DESCRIPTION	PRICE
DTX-1800120	Cable Analyzer	\$10,950.00
DTX-OTDR-KIT	DTX OTDR Kit	10,575.00
DSX-5000120	1 GHz DSX Cable Analyzer NEW	10,950.00
DSX-5000Q120	1 GHz DSX Cable Analyzer with Fiber Quad OLTS and Inspection Probe NEW	23,575.00
DSX-5000QI120	1 GHz DSX Cable Analyzer with Fiber Quad OLTS, OTDR and Inspection Probe NEW	40,000.00



DSX-5000



FLUKE AIRCHECK WI-FI TESTER

Wi-Fi is a complex technology, but testing it doesn't have to be. The AirCheck Wi-Fi tester allows network professionals to quickly verify and troubleshoot 802.11 a/b/g/n networks. Designed specifically for dispatched troubleshooting, AirCheck simplifies wireless testing. Just a few clicks to the answers you need with streamlined, guided troubleshooting. An instant view to required test results including network availability, connectivity, utilization, security settings, rogue hunting, and interference detection.

Each Unit Includes: AirCheck tester with Lithium Ion Battery, USB Cable, Soft Case, Getting Started Guide, CD with AirCheck Manager Software and CD with AirCheck User Manual

PART #	DESCRIPTION	PRICE
AIRCHECK	Wi-Fi Tester	\$1,995.00
ACK-LRAT2000	AirCheck Frontline Troubleshooting Kit with LRPRO	3,995.00



AIRCHECK

T-BERD®/MTS-2000

Test capabilities include a range of OTDR modules for multimode and single-mode testing, as well as a range of FiberComplete™ modules for automated Insertion Loss/ Optical Return Loss (IL/ORL), fault finding and both are passive optical network (PON) optimized. The unit is also ready for connector end face pass/fail analysis to IEC standards with a digital analysis microscope. The PON power meter and CWDM-OSA modules also enable turn-up and trouble-shooting of PON and coarse wavelength division multiplexing (CWDM) networks.



FEATURES

- Large 5-inch touch screen display
- Field-installable modules
- Wide range of OTDR modules
- Automated fiber inspection and IEC pass/fail analysis
- Optional built-in optical power meter, visual fault locator (VFL), and optical talk set
- Lithium Polymer (LiPo) battery
- Flexible connectivity with Ethernet, USB, Bluetooth and WiFi capabilities

APPLICATIONS

- Tier 2 testing of premises networks
- FTtx PON certification and trouble shooting
- Fast fault location
- Splice verification
- Network documentation
- ST, SC, FC Adapter Included

PART #	DESCRIPTION	PRICE
SMARTOTDR-TB2-1W	T-Bird 2000 1550nm 31dB Handheld OTDR	\$3800.00
SMARTOTDR-TB2-2W	T-Bird 2000 1310/1550nm 33/31dB Handheld OTDR	4250.00
SMARTOTDR-TB2-2W-PMVFL	T-Bird 2000 1310/1550nm 33/31dB, Power Meter, VFL	4995.00
TB2-DIS-2WLM	T-BERD 2000 1310/1550nm SM OTDR with CW LS and PM 34/32 dB	5,240.00
TB2-DIS-MM	T-BERD 2000 850/1300nm MM OTDR PACKAGE 26/24 dB	7,050.00
TB2-DIS-QUAD	T-BERD 2000 QUAD MM/SM OTDR PACKAGE 26/24/37/35 dB	8,950.00
TB2-FCOMP2-FF	T-BERD 2000 package 1310/1550nm FiberComplete 37/35 dB	6,900.00
TB2-FCOMP2-MA	T-BERD 2000 package 1310/1550nm FiberComplete w Metro Access OTDR 37/35 dB	8,300.00

JDSU CERTIFIER40G CABLE CERTIFIER

This next-generation cable certifier maximizes installer productivity with the fastest testing time, saving 30 minutes each time 150 CAT-6A cables are tested. Certifier40G protects your investment with the most advanced tester that certifies beyond TIA-568 standards, with a 1600 MHz measurement frequency. It saves technician time by eliminating unnecessary walking between local and remote units.

FEATURES

- Large Touch Screen at both test ends
- Future proof 1600 MHz testing exceeding Level IV accuracy
- Fast CAT 6A/Class FA test of 9 seconds
- Fastest Tier 1 fiber certification of 8 seconds with optional integrated fiber and end-face inspection

PART #	DESCRIPTION	PRICE
NGC-4500-FA-NA	Certifier40G Cat 6A Master and Remote unit Testing Kit	\$8,800.00
NGC-4500-MM-NA	Certifier40G including 2 MM test adapters, reference cables, and mandrels	12,550.00
NGC-4500-MMSM-NA	Certifier40G Cat 6A Test Kit with MM and SM modules, including adapters and reference cables	18,495.00

JDSU CHANNEL CHECKER

JDSU OCC-55 is an innovative selective power meter for CWDM applications. The OCC-55 is a low-cost alternative solution to optical spectrum analyzers. It scans CWDM systems and automatically records all channel key measurements including wavelength, frequency and related power level.

The JDSU SmartClass OCC-56 is a handheld, battery-operated DWDM channel checker that is ideal for field service groups tasked with installation, maintenance, and upgrades of DWDM systems. The OCC-56 supports C-Band applications up to 102 channels and scans the DWDM system while automatically recording all the channels with the wavelength/frequency and related power level. Information can be displayed in a graphical spectrum format or in a table of results so that the user can easily check the performance of each and every channel while meeting ITU-T standards.

APPLICATIONS

- Tier 2 testing of premises networks
- FTtx PON certification and troubleshooting
- Fast fault location
- Splice verification
- Network documentation
- ST, SC, FC Adapter Included

PART #	DESCRIPTION	PRICE
2277-40	OCC-55, CWDM Channel Checker, Range 1260-1630nm	\$6,251.70
2277-41	OCC-56C, DWDM Channel Checker, C-Band, Supports 50,100,200GHz Range 1525-1570nm	7,264.95



2277-40



ANRITSU OTDR BARE FIBER PIGTAIL KIT

Save time by testing optical fibers without connectorizing. Easy-to-use, only a single drop of index matching oil is required. Strip, clean and cleave the fiber then insert into the unit until the end face meets the permanently mounted fiber. Specs: Choice of ST, SC or FC style connectors, Insertion Loss 0.6dB, Typical # of insertions: 2000.

Kit Includes: FiberConnect, Manual, Index Matching Oil, Maintenance Kit, Cleaning Brush, Magnetic Stand, Carry Case and Spare Pigtail.

PART #	DESCRIPTION	PRICE
FIBERCONNECT1-USC	FiberConnect Kit with SC/UPC pigtail	\$625.00
FIBERCONNECT1-UST	FiberConnect Kit with ST/UPC pigtail	625.00
FIBERCONNECT1-UFC	FiberConnect Kit with FC/UPC pigtail	625.00



PREMIER BARE FIBER ADAPTER

Use this adapter for launching an OTDR or test set into an unconnectorized optical fiber for loss or length verification. Adapter can be cleaned easily if fiber breaks off during use. Specs: SC/UPC connector style plug-in, Typical insertion loss 1.0dB.

Kit Includes: Bare Fiber Adapter, Zipper Case, 122mtr SM Fiber Launch Reel with SC/UPC connectors, Cleaning Wire Kit and Instructions.

PART #	DESCRIPTION	PRICE
202073	Bare Fiber Adapter Launch Reel Kit	\$430.00



DIVOT BARE FIBER TESTING DEVICE

The Divot™ is a faster system that uses index matching gel in disposable cartridges to allow for low loss connections and is a lot more forgiving of the quality of the cleaved fiber end. Each cartridge typically yields 500 insertions - 2 cartridges are included with the kit. Replacement cartridges can be purchased in packs of 3 or 12.

PART #	DESCRIPTION	PRICE
DVT-SMB3	Divot™ Bare Fiber Testing Device - SC 9µm Singlemode, 62.5µm and 50µm Multimode	\$420.00
DVT-RC3	Divot™ Replacement OCC Cartridge 3 pk	65.00
DVT-RC12	Divot™ Replacement OCC Cartridge 12 pk	250.00



FIS UNIVERSAL TESTING SLEEVE

Designed specifically for testing applications, the FIS Universal Testing Sleeve reduces labor time while testing fiber optic patch cables with standard for 2.5mm ferrules. Adapters for ST or FC reference cord are available.

PART #	DESCRIPTION	PRICE
F1-81UNIV	FIS ST to 2.5mm Universal Test Adapter	\$15.95
F1-85UNIV	FIS FC to 2.5mm Universal Test Adapter	15.95



FIS MULTIMODE MANDRELS

The use of mandrels in multimode insertion loss testing helps to ensure the proper launch condition into the fiber under test. By wrapping the fiber around the correct size mandrel, high order modes are stripped out and low order modes are spread out to achieve the desired launch conditions for testing. Each includes the mandrel and clip for holding the cable firmly in place during testing. Accepts jacket diameters from 1.6mm to 3.0mm and for use both OM1, OM2 cable.

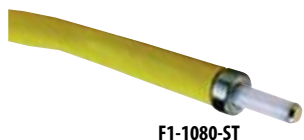
PART #	DESCRIPTION	PRICE
F1-MM6250	62.5/125µm and 50/125µm Mandrel Kit	\$29.00
F1-CCM04	4mm ClearCurve Mandrel (1.6 -2.0mm jacket recommended)	29.00



INFRARED DETECTION CARD

The Infrared Detection Card enables you to easily and safely detect the presence of invisible infrared light, which is potentially harmful to the eyes. Simply point the fiber optic cable, connector or other light source at the card for a visual indication of whether or not infrared light is present. Optimized for wavelengths between 700 - 1310nm.

PART #	DESCRIPTION	PRICE
F1-IDC	700 - 1310nm Infrared Card	\$8.95



FIS GOLD TIPPED PIGTAIL

FIS gold tipped pigtails are available for applications requiring a reference back reflection. Available in ST, FC, and SC style connectors. For singlemode applications the reflective quality of the gold provides high back reflection characteristics at 1310nm and 1550nm.

PART #	DESCRIPTION	PRICE
F1-1080-ST	1 Meter ST/UPC Pigtail with Gold Tipped Ferrule	\$45.00
F1-1080-FC	1 Meter FC/UPC Pigtail with Gold Tipped Ferrule	45.00
F1-1080-SC	1 Meter SC/UPC Pigtail with Gold Tipped Ferrule	45.00
F1-1080-SCAPC	1 Meter SC/APC Pigtail with Gold Tipped Ferrule	50.00
F1-1080-FCAPC	1 Meter FC/APC Pigtail with Gold Tipped Ferrule	50.00

STYLE #1

Dimensions: 5" Diameter
Fiber Capacity: 100 mtrs
(Pulse suppressor only)



STYLE #2

Dimensions: 5.5" x 7.5" x 1.5"
Fiber Capacity: 1,500 mtrs
Test Box: 1 Event – 500 mtrs, 2 Events – 500 mtrs, 3 Events – 500 mtrs



STYLE #3

Dimensions: 7.3" x 9" x 2.5"
Fiber Capacity: 2,500 mtrs
Test Box: 1 Event – 2,500 mtrs, 2 Events – 2,000 mtrs, 3 Events – 1,500 mtrs



STYLE #4

Dimensions: 14.2" x 11.4" x 6.5"
Fiber Capacity: 5,000 mtrs
Test Box: 1 Event – 5,000 mtrs, 2 Events – 4,500 mtrs, 3 Events – 4,000 mtrs



STYLE #5

Dimensions: 22" x 17" x 8"
Fiber Capacity: 20 km
Test Box: 1 Event – 40 km, 2 Events – 42.5 km, 3 Events – 45 km
*Also available 22" x 17" x 12.7"

STYLE #7

Dimensions: 8" x 6" x 4"
Fiber Capacity: 1000 mtr
Test Box: 1 Event – 750 mtr, 2 Events – 600 mtr, 3 Events – 400 mtr

STYLE #8

Dimensions: 4.25" L x 1.5" D
Fiber Capacity: 1000m
ClearCurve® ZBL only (G657.B2)

RETRACTABLE LAUNCH CABLE F1-CC29YUYU1000 STYLE #9

Dimensions: 5" L x 6.75" W x 1.5" D
Fiber Capacity: 1000m



DID YOU KNOW? - PULSE SUPPRESSORS

Pulse Suppressors, also commonly referred to as OTDR Launch Boxes, Delay Lines or "Dummy Fibers," are used to occupy OTDR "Dead Zones" which enable accurate loss measurements on near-end and far-end connections of the fiber under test. Pulse Suppressors may also be used in an educational setting to simulate networks and during installation and troubleshooting. With the inclusion of additional loss points (fusion or mechanical splices, and/or connector events) the Pulse Suppressor becomes a Test Box for quick verification of your OTDR's calibrated accuracy. Generate an initial scan upon first use of your OTDR, then periodically check future scans against the reference to be sure the equipment is within calibrated range. FIS specializes in customization of Pulse Suppressors and Test Boxes!

BUILD YOUR CUSTOM PULSE OR TEST BOX

Use this chart to build the launch box you need to your exact specifications.

Part # Example: PS-2-3-200-0-0-B-7A/YA

Translates to: Pulse Suppressor in a 5.5"x7.5"x1.5" box with 200 meters of 9/125µm fiber with 1 FC/APC and 1 SC/APC Bulkhead Interface



BOX PURPOSE	STYLE	FIBER #1 (CORE/CLAD)	FIBER LENGTH (IN METERS)	FIBER #2 (CORE/CLAD)	FIBER LENGTH (IN METERS)	INTERFACE	CONNECTOR FIBER 1 / FIBER 2
PS	2	3	200	0	0	B	7A/YA
PS= Pulse suppressor TB= Test Box Test box includes 1 or more events, must specify distance between events	1= #1 2= #2 3= #3 4= #4 5= #5 6= #6 7= #7 8= #8	1= 50/125µm - OM2 2= 62.5/125µm - OM1 3= 9/125µm - OS2 4= Other 8= BI 10G 50/125µm - OM3 9= ClearCurve® SM ZBL 10= BI 10G 50/125µm - OM4		0= none 1= 50/125µm - OM2 2= 62.5/125µm - OM1 3= 9/125µm - OS2 4= Other 8= BI 10G 50/125µm - OM3 9= ClearCurve® SM ZBL 10= BI 10G 50/125µm - OM4		B= Bulkhead (except boxes 1 and 8) P= Pigtaills R= Ruggedized Pigtaills (Microduct)	7U= FC/UPC 7A= FC/APC 8 = ST/PC LU= LC/UPC LA= LC/APC MU= MU/UPC YU= SC/UPC YA= SC/APC O= Other MT= MTP w/pins

FIS LAUNCH BOX PART NUMBER/PRICE EXAMPLES XX - Indicates Connector Choice

PART #	DESCRIPTION	PRICE
PS-4-3-1000-0-0-P-XX/XX	Launch Box Style #4, 1000m 9/125µm SMF-28e+®, 2 meter Pigtaills with Connector of Choice	\$620.00
PS-7-3-500-0-0-P-XX/XX	Launch Box Style #7, 500m 9/125µm SMF-28e+®, 2 meter Pigtaills with Connector of Choice	450.00
PS-7-1-100-0-0-P-XX/XX	Launch Box Style #7, 100m 50/125µm or 62.5/125µm Fiber, 2 meter Pigtaills with Connector of Choice	350.00
PS-1-1-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m 50/125µm or 62.5/125µm Fiber, 1.5m pigtaills - SC/UPC connectors both ends	185.00
PS-1-3-100-0-0-P-YU/YU	Launch Disc, Style #1, 100m Singlemode SMF28e+, 1.5m pigtaills - SC/UPC connectors both ends	185.00
PS-7-1-500-0-0-P-YU/YU	Launch Box, Style #7, 500m 50/125µm or 62.5/125µm Fiber, 1.5m pigtaills - SC/UPC connectors both ends	399.00

*When ordering Test Boxes, please specify type and location of up to 3 events. Each additional event \$30.00. For Test Box Call for Pricing

FIS RETRACTABLE LAUNCH CABLE (STYLE #9)

PART #	DESCRIPTION	PRICE
F1-CC29YUYU-1000	FIS Compact Fiber Launch Cable SC/UPC-SC/UPC 1000 meters	\$319.00
F1-FLS9YUYA-1000	FIS Fiber Launch Cable SM 9/125, SC/UPC- SC/APC 1000 meters (Not Pictured)	585.00
F1-FLS9YUYU-1000	FIS Fiber Launch Cable SM 9/125, SC/UPC-SC/UPC 1000 meters (Not Pictured)	579.00



ANRITSU PIM TESTER - MW82119A

The MW82119A is a high performance PIM test solution allowing operators to adjust output power from +25 dBm (0.3 Watts) to +46 dBm (40 Watts). PIM interference is highly dependent on the power level being transmitted by the system. By matching the PIM test power level more closely to the actual power level used at the site, operators will gain a clearer understanding of the true interference generated by both the RF infrastructure and the environment where the antenna is placed.

PART #	DESCRIPTION	PRICE
MW82119A	PIM Master Passive Intermodulation Analyzer Base Unit (Requires frequency option - 700, 850,900,180,190 or 192)	\$1,000.00
MW82119A-0180	Option 180, DCS 1800 MHz	21,995.00
MW82119A-0190	Option 190, PCS 1900 MHz	21,995.00
MW82119A-0192	Option 192, PCS/AWS 1900/2100 MHz	21,995.00
MW82119A-0700	Option 700, LTE 700 MHz	21,995.00
MW82119A-0850	Option 850, Cellular 850 MHz	21,995.00
MW82119A-0900	Option 900, E-GSM 900 MHz	21,995.00
MW82119A-0019	Option 19, High Accuracy Power Meter	570.00
MW82119A-0031	Option 31, GPS Receiver	465.00
760-259-R	Rugged Transit Case	600.00

ANRITSU SPECTRUM MASTER - MS272T

Spectrum Master model MS2721B is an entirely new instrument for deploying, maintaining and troubleshooting wireless base stations and Wi-Fi (802.11a,b and g) systems.

Each Unit Includes: User's Guide, a Soft Carrying Case, an AC - DC Adapter, an Automotive Cigarette Lighter/12 Volt DC Adapter, a CD ROM containing Master Software Tools and USB driver, a USB A-Mini B cable, an Ethernet Cable, a Rechargeable Li-Ion Battery Pack, a 2 GB USB Flash drive, a Type-N Male to SMA Female Adapter, a Type-N Male to BNC Female Adapter.

PART #	DESCRIPTION	PRICE
MS2721E	Handheld Spectrum Analyzer, 9 kHz to 6 GHz	\$11,950.00
2000-1032R	Portable Antenna, 50 Ohm, SMA (m), 2.4 to 2.5 GHz	40.00
2000-1361R	Antenna, 5725 to 5825 MHz, SMA male connector	65.00

* Call for other configurations

ANRITSU SITE MASTER - S361E/S362E

Site Master S361E, covering 2MHz to 6GHz is designed to accurately locate and identify RF cable feed-line and antenna system faults.

Each Unit Includes: Site Master User Guide, Soft Carrying Case, MST CD: Master Software Tools, User/Measurement Guides, Programming Manual, Troubleshooting Guides, Application Notes, Rechargeable Li-Ion Battery, AC-DC Adapter, Automotive Cigarette Lighter 12 VDC Adapter, USB A/5-pin Mini-B Cable.

PART #	DESCRIPTION	PRICE
S361E	Site Master, 2 MHz to 6 GHz Cable and Antenna Analyzer	\$8,450.00
S361E-0010	Option 10, Bias Tee (For Model S361E) (Requires Option 21)	465.00
S361E-0019	Option 19, High Accuracy Power Meter (Requires Sensor, sold separately) (For Model S361E)	570.00
S361E-0021	Option 21, 2-Port Transmission Measurement (For Model S361E)	1,440.00
S361E-0031	Option 31, GPS receiver (Requires Antenna P/N 2000-1528-R, sold separately) (For Model S361E)	465.00
S362E	Site Master, 2 MHz to 6 GHz Cable and Antenna Analyzer, 100 kHz to 6 GHz Spectrum Analyzer	15,450.00

LMR TESTER

The LMR Master is the ideal instrument for technicians and engineers testing the RF performance of P25 and NXDN radios in the VHF/UHF, 400 MHz, 700 MHz, and 800 MHz bands.

Each Unit Includes: Software Tools, Battery Pack, Soft Case, AC/DC Power Cables, Serial Cable and User's Guide.

PART #	DESCRIPTION	PRICE
S412E	S412E LMR Master, 500 kHz to 1600 MHz cable/antenna Analyzer, 500 kHz to 1600 MHz P25	\$13,950.00
S412E-0006	Option 6, 6 GHz Coverage on Spectrum Analyzer	4,000.00
S412E-0016	Option 16, 6 GHz Coverage on Vector Network Analyzer	4,000.00
S412E-0019	Option 19, High Accuracy Power Meter (Requires Sensor, sold separately)	570.00
S412E-0025	Option 25, Interference Analyzer (Option 31 is recommended)	1,805.00
S412E-0031	Option 31, GPS Built-in Receiver (Requires GPS Antenna P/N 2000-1528-R, sold separately)	465.00
S412E-0431	Option 431, Coverage Mapping (Requires Option 31)	2,500.00



MW82119A



MS2721E



S361E



S412D

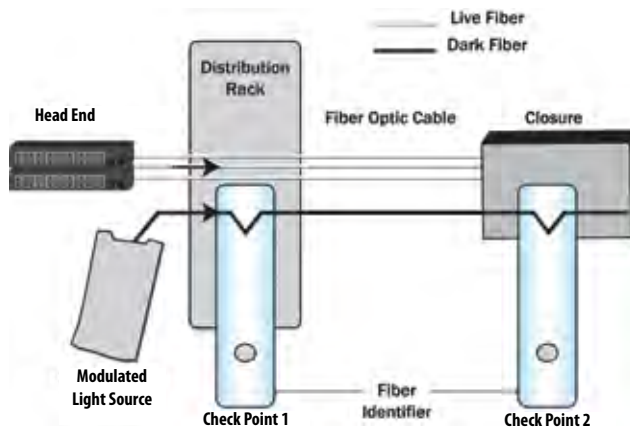


DID YOU KNOW? - FIBER IDENTIFIERS

A Fiber Identifier allows you to see if a fiber is active without having to disconnect it from the network. They accomplish this by clamping onto a fiber mid-span and inducing a small macro bend. The Fiber Identifier can detect the small amount of light leaking through the macro bend to determine activity. Most units can also determine the direction of the traffic over the fiber link. Fiber Identifiers can also detect and identify specific modulated frequencies.

Fiber Identifiers are typically designed to work with 250µm coated, 900µm buffer, 2mm jacket and 3mm jacketed fibers. Ribbon Fiber versions are also available. Several higher end models are also capable of measuring the strength of the optical signal traveling down the fiber and displaying it on the unit.

TYPICAL APPLICATION



WILCOM FIBER IDENTIFIER

Wilcom's Optical Fiber Identifiers are rugged metal units with the best sensitivity detection on the market today. They operate by inducing a macrobend on the fiber, and can be used for singlemode and multimode applications. Certain Wilcom models allow Relative Core Power measurements to be displayed. The unit can also detect the presence of 2kHz, 1kHz or 270Hz modulated tones. The optical head accepts a 3mm, 250µm /Ribbon or 900µm fibers.

Each Unit Includes: 9V Alkaline Battery, Carry Case and Interchangeable Heads for 3mm, 900µm, 250µm Fibers.

PART #	DESCRIPTION	PRICE
F6121A	Fiber Identifier	\$1,280.00
F6222	Fiber Identifier with Core Power and Digital Display	1,600.00
F6222C	CATV Fiber Identifier	1,590.00
F6121R	Ribbon Fiber Identifier	1,782.00
044-197731	3mm Adapter Head	65.00
044-1996501	2mm Adapter Head	65.00
044-20715011	1.6mm Adapter Head	65.00

Wilcom



F6222

AFL OPTICAL FIBER IDENTIFIER

The AFL OFI 200D Optical Fiber Identifier is a low-cost, high-tech approach to non-invasive fiber optic signal detection. Using a low-insertion loss, macro-detection technique, it discriminates signals without disrupting service or overstressing fiber. By simply clamping an Optical Fiber Identifier onto a gently bent fiber, the unit will indicate if there is [No Signal], [Tone], or [Traffic] and identify signal direction. This is all done with no head swapping or adjustments for different types of fiber, 250µm, 900µm, 3mm jacketed cable and ribbon fiber.

PART #	DESCRIPTION	PRICE
OFI200D	Optical Fiber Identifier	\$1,495.00
OFI400	Optical Fiber Identifier for use with 250µm, 900µm, Ribbon, 2mm and 3mm Jacketed Optical Fibers	1,595.00
OFIFTTX	Active Out Detector for FTTx, BPON, GPON, EPON Networks	1,645.00

AFL



OFI200D

FITEL FIBER IDENTIFIER

When you are doing maintenance on a network that can't be shut down for testing, reach for the Fitel Fiber Identifier. This device places a macro bend in the fiber that enables you to identify transmission direction, fiber path and relative core power on live optical fibers. Universal fiber optic adapter head accepts coated, ribbon or jacketed fiber optic cables. LED display and audible tone indicator.

Each Unit Includes: Battery, Strap and Manual

PART #	DESCRIPTION	PRICE
F1-IDH	Fitel Lightfinder ID-H Fiber Identifier with Universal Head	\$1,195.00

FITEL
FUSION SPLICERS



F1-IDH

EXFO LIVE FIBER IDENTIFIER AND TONE GENERATOR

The EXFO Fiber Finder can identify traffic, direction and tone detection on both active and dark fibers. With less than 1dB of induced loss, a live fiber can quickly be located and the power measured while minimizing network access time and the possibility for errors. The TG-300 is a non-intrusive, non-disruptive tone generator. Because of the low 0.2dB typical loss, they can be used on live fibers. The Fiber Finder and Toner work on all wavelengths and fiber types. One headpiece works on 900µm, 1.6mm and 3mm jackets and tones of 270Hz, 1kHz and 2kHz. The TK-FF kit includes both the Fiber Finder and Toner along with a case, AC adapter and 4 AA batteries per unit.

PART #	DESCRIPTION	PRICE
LFD-300	Live Fiber Identifier	\$2,995.00
TG-300	EXFO Fiber Toner	3,595.00
TK-FF	Fiber Identifier Kit – LFD-300 plus TG-300	5,995.00

EXFO



LFD-300

TG-300



FIBERBASIX 50 SERIES

EXFO FIBERBASIX 50 SERIES POWER METER/LIGHT SOURCE

The EPM-50 Power Meter allows power measurements up to 26 dBm with battery autonomy of over 300 hours. It comes with a specific high power configuration for CATV and Telco markets. The ELS-50 Light Source offers the power stability and reliability necessary to perform loss measurement in Telco, CATV and FTTH applications using dual and triple wavelengths. Additional kit available.

Each Unit Includes: Soft pouch, PMA-22 FC connector adapter, LSA-89 FC connector adapter, quick reference sticker in five languages, Certificate of Calibration, Certificate of Compliance, and three AA batteries. **Other Adapters Available.**

PART #	DESCRIPTION	PRICE
ELS5012CRBLSA91	Dual MM 850/1300nm LS with Rubber Boot, SC Adapter	\$585.00
ELS5023BLRBSA91	Dual SM 1310/1550nm LS with Rubber Boot, SC Adapter	1,025.00
EPMS3RBPMA54	Power Meter with InGaAs Detector, Rubber Boot, SC Adapter	350.00
EPMS3XRBPMA54	Power Meter with High Power In GaAs Detector, SC adapter	380.00
FBK-53	Contractor Kit 850/1300/1310/1550nm LS, InGaAs PM, Carry Case	1,645.00
PMA-22	FC Connector adapter for EPM-50 power meter	20.00
PMA-32	ST Connector adapter for EPM-50 power meter	20.00
PMA-54	SC Connector adapter for EPM-50 power meter	20.00



OPMS-2D



OLS4



SMLP5-5

NOYES SMLP5-5 SM/MM LOSS TEST KIT FROM AFL

Essential tool for certifying Singlemode and Multimode fiber networks to industry standards. Included TRM™ PC Reporting Software is a powerful tool for analyzing test results, applying industry standards, and generation of comprehensive certification reports using supplied industry accepted templates.

NOYES SMLP5-5 test kit is ideally suited for testing Singlemode and/or Multimode fiber optic networks and cables. The OPMS-2D and OLS4 offer long battery life from common AA alkaline batteries with external AC adapter available as an option. The SMLP5-5 test kit is fully N.I.S.T. traceable.

FEATURES

- Test Singlemode and Multimode networks
- Wave ID (auto identification and switching)
- TRM™ Reporting Software (Windows® compatible)
- Dual or Single Wave ID, CW, Tone
- File Management for over 600 fibers
- USB port for transfer of stored results
- 50µm and 62.5µm Fiber Mandrels included
- Display readable in dim area or direct sunlight

Includes: (1) OLS4 Optical Light Source, (1) OPMS-2D Optical Power Meter, AA Batteries, Protective Rubber Boots, Adapter Cap, USB Cable, Windows® Compatible Software User's Guide, 50µm And 62.5µm Mandrels, and Carry Case.

PART #	DESCRIPTION	PRICE
SMLP5-5	NOYES Quad Optical Loss Test Kit (specify connector style when ordering)	\$2,995.00

Available Connector Adapters: FC, ST, SC, LC

EXFO FOT-600 OPTICAL LOSS TEST SET (OLTS)

The FOT-600 features a pass/fail LED indicator and lets technician set their own thresholds of absolute or relative loss measurements. When utilizing auto-switching mode, the light source automatically toggles between available wavelengths. The power recognizes the wavelength in use and switches to proper calibration parameter. The FOT-600 has both built in power meter and light source for bi-directional testing.

FEATURES

- 40 calibrated wavelengths, including all CWDM wavelengths
- Memory capacity of 1000 data items
- Built-in reporting software with data transfer to a PC via USB connection
- No offset Nulling
- Built-in Visual Fault Locator
- Factory Warranty – 3 years

PART #	DESCRIPTION	PRICE
FOT-602X-23BL-YY-VFL	FOT-600 OLTS High Power Ge Power Meter, Dual 1310/1550nm Laser, VFL	\$2,450.00

X- indicate power meter adapter (FOA-54=SC, FOA-98=LC, FOA-22=FC, FOA-32=ST)

YY- indicate source adapter (EUI-91=SC/UPC, EUI-89=FC/UPC, EUI-90=ST/UPC)

EXFO FOT-300 OPTICAL LOSS TEST SET (OLTS)

The FOT-300 OLTS has both a built-in power meter and light source for bi-directional testing without technicians needing to exchange equipment.

FEATURES

- Auto-Wavelength Recognition
- Distant Referencing
- No offset Nulling
- FTtx Ready units available with 1490nm
- Factory Warranty – 3 years

PART #	DESCRIPTION	PRICE
FOT-302-12D-YY	FOT-300 OLTS Power Meter, Dual 850/1300nm LED(62.5/125µm)	\$1,495.00
FOT-302X-23BL-YY	FOT-300 OLTS High Power Ge Power Meter, Dual 1310/1550nm Laser	2,095.00
FOT-302X-235BL-YY	FOT-300 OLTS High Power Ge Power Meter, Tri 1310/1490/1550nm	3,000.00

X- indicate power meter adapter (FOA-54=SC, FOA-98=LC, FOA-22=FC, FOA-32=ST)

YY- indicate source adapter (EUI-91=SC/UPC, EUI-89=FC/UPC, EUI-90=ST/UPC)



FIS POWER METER

A power meter is the essential tool for measuring optical power within a fiber optic link. The FIS Power Meter is a solid performer, with 0.01dB resolution. Standard FIS units test from +23dBm to -45dBm.

FEATURES

- 2mm Germanium Photodiode
- Available with 1490nm Calibrated Wavelength
- 70-Hour Battery Life
- Low Battery Indicator
- CATV Version Available
- Built-in Stand for Easy Viewing
- Ruggedized Units Available for Harsh Outdoor Environments

Each Unit Includes: Operating Manual, 9V Battery, 2.5mm and 1.25mm Adapters, and Carry Case.

PART #	DESCRIPTION	PRICE
F1-8513HR	Hand Held Power Meter with 0.01dB Resolution	\$325.00
F1-8513HRCATV	CATV Hand Held Power Meter with 0.01dB Resolution	355.00
F1-8513HR-4	0.01dB Resolution Power Meter with 1310/1490/1550nm	415.00
F1-8513HRCATV-4	CATV 0.01dB Resolution Power Meter with 1310/1490/1550nm	445.00
9080-0000	Ruggedized Power Meter with 2.5mm and 1.25mm Universal Adapter	549.00
9081-0000	FIS Test Set/PM - 850/1300nm LS with ST Adapters and 2.5mm and 1.25mm PM Universal Adapter	1,225.00
9082-0000	FIS Test Set/PM - 1310/1550nm LS with FC Adapters and 2.5mm and 1.25mm PM Universal Adapter	1,795.00
9083-0000	FIS Test Set/PM - 1490/1550nm LS with FC Adapters and 2.5mm and 1.25mm PM Universal Adapter	2,045.00

POWER METER ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-8513UM	2.5mm Universal Adapter (ST, FC, SC) (Polymer)	\$39.00
F1-8513SC	SC Adapter	49.00
F1-8513ST	ST Adapter	49.00
F1-8513FC	FC Adapter	49.00
F1-8513SMA	SMA Adapter	49.00
F1-8513MTP	MTP Adapter	69.00
F1-8513MTJ	MT-RJ Adapter	59.00
F1-8513LCMUM	1.25mm Universal Adapter (Polymer)	39.00
1018-0000	Rugged Carry Case (See picture of Test Set Kit to the right)	39.00
F1-9103U	Universal 110/220v Power Supply	29.00

FIS LIGHT SOURCE

The FIS Light Source is the perfect match for the FIS Power Meter. Singlemode units are equipped with lasers having a typical output power of -1.0dBm. Multimode units have LED's with a minimum output of -17dBm.

FEATURES

- Single or Dual Light Sources
- Continuous Wave (CW) or 2kHz Modulation
- Auto Shut Off and Low Battery Indicator
- Optional AC Power Supply
- 30-Hour Typical Battery Life
- Fixed Adapter for Optimal Performance
- Built-in Stand for Easy Viewing
- Ruggedized Units Available for Harsh Outdoor Environments

Each Unit Includes: Operating Manual, 9V Battery and Carry Case.

PART #	DESCRIPTION	PRICE
9050-0000	850nm LED Light Source with ST Adapter	\$295.00
9051-0000	1300nm LED Light Source with ST Adapter	450.00
9052-0000	Dual 850/1300nm LED Light Source with ST Adapter	525.00
9053-0000	1310nm Laser Light Source with FC Adapter	795.00
9054-0000	1550nm Laser Light Source with FC Adapter	795.00
9055-0000	Dual 1310/1550nm Laser Source with FC Adapter	995.00
9056-0000	1490/1550nm Laser Light Source with FC Adapter	1,355.00
9058-0000	Dual 1300nm LED/1310nm Laser Source (ST and FC)	1,095.00
9086-0000	Ruggedized Light Source 850/1300nm with ST Adapters	675.00
9087-0000	Ruggedized Light Source 1310/1550nm with FC Adapters	1,345.00
9088-0000	Ruggedized Light Source 1490/1550nm with FC Adapters	1,595.00
F1-9103U	Universal 110/220v Power Supply	29.00

FIS POWER METER AND LIGHT SOURCE KIT

Purchase either our hand held or ruggedized series power meter and light source together and receive a convenient carry case with reference cords and mating sleeves. Operating manuals and batteries included. Multimode sources standard with ST style interface, Singlemode sources standard with FC style interface. Power meters supplied with universal 2.5mm and 1.25mm adapter caps.

PART #	DESCRIPTION	PRICE
F1-813LR	Hand Held PM (0.01dB Resolution) 850/1300nm Dual LED LS (ST Interface)	\$855.00
F1-1315LR	Hand Held PM (0.01dB Resolution) 1310/1550nm Dual Laser LS (FC Interface)	1,525.00
F1-1835LR	Hand Held PM (0.01 Res), 850/1300nm and 1310/1550nm Light Sources (FC/SM, ST/MM Interface)	2,080.00
F1-1835LRVFL	Hand Held PM (0.01 Res), 850/1300nm and 1310/1550nm Light Sources and VFL	2,205.00
F1-1345LR	Hand Held PM (0.01 Res) 1310nm 1490nm, 1550nm Laser Light Source (FC Interface)	2,570.00
F1-813RG	Ruggedized PM (0.01 Res) 850/1300nm LED Light Source (ST Interface)	1,250.00
F1-1315RG	Ruggedized PM (0.01 Res) 1310/1550nm Laser Light Source (FC Interface)	1,895.00
F1-LRDLXCASE	Hard Case for 3 units (empty)	127.00



F1-8513HR



RUGGEDIZED POWER METER



9050-0000



New Interchangeable Source Adapters Coming Soon!

RUGGEDIZED LIGHT SOURCE



Custom Configurations Always Available! Please Call Today!



F1-813LRVFL



EXFO 930 SERIES MAXTESTER

The FOT-930 MaxTester multifunction loss tester is a single tool solution for bi-directional loss and ORL testing in all networks. By combining multiple tools in one powerful platform, technician training time is reduced. User-configurable pass/fail thresholds and one button testing minimize the opportunity for error. Reliably inspect connector endfaces with the probe option. Stores up to 1,000 test reports that can be downloaded to the included software, to generate comprehensive custom reports.

FEATURES

- One Touch Automated Testing of Multiple Wavelengths for Loss and ORL in <10sec.
- Bi-directional
- Combines Loss, Power and ORL Measurement Capability
- Multimode and/or Singlemode Sources
- Fiber Length Testing
- Probe, VFL and Digital Talk Options
- Pass/fail Thresholds
- High Resolution Color Display

Each Unit Includes: AC Charger, Li-Ion Batteries, Case and Shoulder Strap.

PART #	DESCRIPTION	PRICE
FOT93212DEIEUI91	EXFO MaxTester MM 62.5µm 850/1300nm, SM 1310/1550nm	\$8,590.00
FOT93212DVFEIEUI91	EXFO MaxTester MM 62.5µm, SM, VFL and Talkset, SC/UPC	11,555.00
FOT932400VFL00EIEUI91	EXFO MaxTester triple-wavelength 1310/1550/1625nm, VFL	7,445.00
FOT932VFLFP4SEIEUI91	EXFO MaxTester SM 1310/1550nm, VFL, 400X Probe, SC/UPC	7,025.00
FOT-932-00-XX-YY-ZZ	Multifunction Tester with 1310/1550nm source	5,325.00
FOT-932-12C-ZZ-YY-ZZ	Multifunction Tester with 850/1300/1310/1550nm source	8,590.00

Add an 'X' after the 932 to specify high power (+26dBm) detector

Call For Configurator Connector Options (Talk, VFL or Video Probe).



EXFO PON POWER METER

EXFO PON POWER METER

This new power meter is truly optimized for EPON and GPON architectures. Pass/Warning/Fail indicators for easy assessment of power values. Simultaneous measurement and display of all PON signals – Voice, Data and Video. The most easy-to-use instrument of its kind: simply connect the fiber and read the results.

Includes: Quick Reference Guide, USB Cable, Software, User Guide on CD, Wrist Strap, and Protective Cover for Optical Ports.

PART #	DESCRIPTION	PRICE
PPM-352C-YYY	PON Power Meter with pass through port	\$1,645.00

Replace YYY with EI-EUI-89=FC, 90=ST, 91=SC universal adapters for Light Sources and Kits.

NOYES C860 CERTIFICATION TESTER

The NOYES C860 QUAD Certification and OTDR Test Kit from AFL Telecommunications includes one handheld C840 QUAD OLTS Tester and one C850 QUAD OTDR/OLTS with built-in auto test functionality. With this kit, technicians can troubleshoot and perform both Tier 1 and Tier 2 certification tests of Multimode and Singlemode fiber networks, store results and create professional test reports.

FEATURES

- OTDR dynamic range: MM-22dB, SM-26dB
- Integrated OPM, OLS, and VFL (650 nm)
- OLS Sources:
 - LED - 850/1300 nm
 - Laser - 1310/1550 nm
- Full Auto, Expert, Real-Time OTDR test modes
- Internal (1,000s tests) and USB storage
- Wave ID detect if used with AFL Wave ID series light sources

Each kit includes: One Handheld C840 QUAD Certification Tester, One Compact C850 QUAD OTDR/OLTS, USB Flash Drive, PC Trace Analysis Software, (2) AC Adapters, Switchable Test Ports Adapters, and Accessories.

PART #	DESCRIPTION	PRICE
C860-100-LP1-H2	(1) C840 Quad Tester and (1) Compact C850 Quad OTDR/OLTS SC-LC Kit	\$16,995.00
C860-100-LP1-H5	(1) C840 Quad Tester and (1) Compact C850 Quad OTDR/OLTS SC-ST Kit	16,995.00

NOYES C880 CERTIFICATION TESTER

Combining two C840 Certification Testers, the NOYES C880 QUAD Certification Test Kit from AFL is designed for testing and troubleshooting both Multimode and Singlemode fiber links. Each tester includes an integrated Visual Fault Locator (VFL, 650nm), both Singlemode (Laser 1310/1550nm) and Multimode (LED 850/1300nm) Optical Light Sources (OLS), and an Optical Power Meter (OPM). Each tester may be used alone as a traditional power meter, light source or visual fault locator.

FEATURES

- Integrated OPM, OLS, and VFL (650 nm)
- Dual-wavelength certification Pass/Fail
- Bi-directional and single fiber testing
- Rechargeable Li-Ion battery or AC power
- Internal (1,000s test results) and USB storage
- Transflective (indoor/outdoor) touch screen display

Each Kit Includes: (2) C840s Testers, USB Flash drive, Software, (2) AC Adapters, Switchable Test Ports Adapters (SC, 2.5mm, 1.25mm, and Cleaning Accessories.

PART #	DESCRIPTION	PRICE
C880-100-LP1-S1	(2) NOYES C840 Quad Certification Testers SC-LC Kit	\$10,500.00
C880-100-LP1-S2	(2) NOYES C840 Quad Certification Testers SC-ST Kit	10,500.00



C860



C880

FIS OV-3 TEST SET

Loss Test Sets contain both a power meter and a light source in a single unit and are used to perform bi-directional end-to-end loss measurements. The FIS OV-3 Test Set is available configured in a number of flexible models to meet the installation and maintenance requirements of all optical networks. Include the CATV, VFL and Talk options to any model for additional functionality. The OV-3 is available in a power meter only version with the same great features.

FEATURES

- High Resolution Power Meter Calibrated at 850/1310/1490/1550nm
- 2mm Germanium Detector
- Backlit Display
- Available as Power Meter Only or Test Set
- Single or Dual Wavelength Light Source
- Stores up to 255 Tests
- Li-Ion Rechargeable Battery
- CATV, VFL and Talk Options
- One-Year Warranty
- Carry Case

Each Unit Includes: 110v/220v AC Charger, PC Software, 2.5mm and 1.25mm Universal Adapters, Soft Carry Case, RS232 Data Cable, (3 mtr patch cable included with Units with Light Source Option).

PART #	DESCRIPTION	PRICE
OV3-PM	Deluxe Power Meter with RS232	\$725.00
OV3-85	Test Set with 850nm Light Source	895.00
OV3-13	Test Set with 1300nm Light Source	995.00
OV3-8513	Test Set with 850/1300nm Light Source	1,195.00
OV3-31	Test Set with 1310nm Light Source	1,395.00
OV3-15	Test Set with 1550nm Light Source	1,695.00
OV3-1315	Test Set with 1310/1550nm Light Source	1,995.00
OV3-1415	Test Set with 1490/1550nm Light Source	2,295.00

Add "C" to part number for CATV version, (Singlemode Only) add \$30.00 • Add "V" to part number for VFL Option add \$190.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
USBG232MM	RS232 to USB Converter	\$30.00

* Call for additional adapter styles/configurations.

MULTIFIBER™ PRO OPTICAL POWER METER AND TEST KITS

Introducing the MultiFiber™ Pro Optical Power Meter and Fiber Test Kits. MultiFiber Pro is the only fiber tester that tests MPO fiber trunks without the use of fan-out cords, eliminates the complexity of polarity issues and makes cassette testing in the field much easier.

FEATURES

- Automatic scanning and testing of all fibers in MPO connectors
- Ensures correct end-to-end connectivity of MPO connectors with built-in polarity verification
- On-board MPO connector so no fan-out cords are required when testing fiber trunks
- Easy to interpret test result with a simple user interface that displays all 12 fibers
- Troubleshoots a single fiber by measuring loss of selective fiber within an MPO trunk
- No dust caps to manage or lose with shuttered MPO connector

PART #	DESCRIPTION	PRICE
MFTK1200	MPO Testing Base Kit includes: MultiFiber Pro Power Meter, 850 Light Source, Test Cords, MPO adapters and carrying case.	\$9,995.00
MFTK1400	MPO Testing and Inspection Kit includes: MFTK1200, FT600 FiberInspector Pro with NF370 MPO Tip.	13,995.00

FIS FIBER OPTIC TALK SET

The FIS Fiber Optic Talk Set is a hands-free unit designed for transmitting voice in both directions in a single fiber using two different wavelengths, 850/1300nm for the Multimode unit and 1310/1550nm for Singlemode. Includes adjustment for power and sensitivity. The built in VOX (sensitivity) circuit is meant to conserve battery power when the operator is not speaking. In addition to these features the unit also comes with a rechargeable 9V 540mAh battery and a charging port for in-unit charging. The Talk Set comes standard with ST or FC adapters ports. The loss budget for our Multimode set is 15dB; the Singlemode set is 20dB. Finally, each Talk Set comes equipped with a stereo headset with boom microphone, providing comfort for long-term use and high performance.

Talk Set includes: (2) Units, (2) Headphones with Microphone, 9V Battery

PART #	DESCRIPTION	PRICE
9061-1000	FIS Multimode Talk Set (pair) ST Adapter	\$695.00 (pair)
9061-2000	FIS Multimode Talk Set (pair) FC Adapter	695.00 (pair)
9062-1000	FIS Singlemode Talk Set (pair) FC Adapter	1,495.00 (pair)
9062-2000	FIS Singlemode Talk Set (pair) ST Adapter	1,495.00 (pair)

FIS CONTINUITY TESTER

A Continuity Tester enables you to easily verify light throughout as the LED transmits red light down the fiber, providing visual identification at the fiber's far end. Operates with two "AA" size batteries (provided).

Recommended for Multimode Use Only. Each Unit Includes: Tester and (2) AA Batteries.

PART #	DESCRIPTION	PRICE
F1-5000U	Fiber Continuity Tester 2.5mm Universal (ST, FC and SC)	\$29.95
F1-5000	Fiber Continuity Tester (ST)	29.95
F1-5000SMA	Fiber Continuity Tester (SMA)	29.95
F1-5000FC	Fiber Continuity Tester (FC)	29.95
F1-5000SC	Fiber Continuity Tester (SC)	29.95
F1-5000LC	Fiber Continuity Tester (LC)	29.95



9061-1000



F1-5000 SC





F1-VM400LCD



F1-9786



F1-MS200U



F1-VS200U



F1-VS400U



OFS-300-200C



VS-300

FIS VIDEO MICROSCOPE

The FIS Video Microscope is a natural choice for fast-paced production environments, where ease of use and fast, accurate inspections are a necessity. The microscope offers a high-resolution look at the end face of most standard connectors, through a choice of either 200x or 400x magnifications. The optics and internal components are designed to be rugged and reliable, with no user-serviceable parts.

Each Package comes with: (1) Video Microscope, (1) 22" LCD monitor, (1) 6' Video Cable, (1) 2.5mm Universal Adapter

PART #	DESCRIPTION	PRICE
F1-VM200LCD	200x Video System (110v)	\$695.00
F1-VM400LCD	400x Video System (110v)	695.00
F1-VM200PLCD	200x Video System (220v)	795.00
F1-VM400PLCD	400x Video System (220v)	795.00
F1-VM200USB	200x, USB (No LCD Monitor included)	470.00
F1-VM400USB	400x, USB (No LCD Monitor included)	470.00

MICROSCOPE ACCESSORIES

Adapters are for use with the FIS Video Microscope VM Series and F1-VS200/400U Series.

PART #	DESCRIPTION	PRICE
F1-VS25	Universal 2.5mm Adapter	\$60.00
F1-VS12U	Universal 1.25mm Adapter	60.00
F1-VSAPC25	Universal 2.5mm APC Adapter	60.00
F1-VSLC	LC Simplex Adapter	60.00
F1-VSSMA	SMA Adapter	60.00

FIS UNIVERSAL 100x MICROSCOPE

The FIS Universal Microscope is provided with a 2.5mm universal faceplate. Insert the ferrule into the microscope and inspect the end face with ease. This complete 100x microscope is perfect for multimode connectors and is easy to use.

PART #	DESCRIPTION	PRICE
F1-9786	Hand Held Universal Microscope (ST, FC and SC) 100x	\$69.00
F1-9786LC	LC Adapter for F1-9786	59.95

FIS 200x MINI FIBER MICROSCOPE

Utilize this compact scope to inspect connector ferrule end faces for dirt, debris or oils that may interfere with signal transmission. Scope has both Oblique and Coaxial white LED lighting.

Includes: Microscope, (2) AAA Batteries, 2.5mm adapter, 1.25mm adapter

PART #	DESCRIPTION	PRICE
F1-MS200U	Compact 200x Microscope	\$99.00

FIS 200x AND 400x MICROSCOPE

These low cost, high quality microscopes are available in 200x or 400x magnification, and utilize white LED light to provide coaxial illumination of connector end faces. Three "AAA" batteries provide more than 40 hours of use before battery replacement is required. Provided with a universal 1.25mm and a 2.5mm adapter, with other connector styles available. Dimensions: 8.76"L x 2.16"H

PART #	DESCRIPTION	PRICE
F1-VS200U	200x Microscope with 1.25mm and 2.5mm Universal Adapter	\$99.00
F1-VS400U	400x Microscope with a 1.25mm and 2.5mm Universal Adapter	105.00

NOYES FIBER OPTIC INSPECTION SCOPE

The NOYES OFS-300 with universal adapter (ST, FC, and SC) is a versatile instrument used to inspect fiber optic connectors. Recommended for both multimode and singlemode applications. FIS also offers an 8° scope adapter for inspecting angled connectors. Operates on 2 "AA" alkaline batteries. Call for additional adapters.

PART #	DESCRIPTION	PRICE
OFS-300-200C	200x Fiber Optic Scope with 2.5mm Universal Adapter	\$439.00
VS-300	400x View Safe Inspection Scope 2.5mm Universal Adapter (NTSC video output)	835.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
8800-00-0218	FC/APC Scope Adapter	\$94.00
8800-00-0219	2.5mm Universal Scope Adapter	56.00
8800-00-0220	SC/APC Scope Adapter	94.00
8800-00-0203	SMA Scope Adapter	56.00
8800-00-0225	LC Simplex/Duplex Scope Adapter	113.00
8800-00-0236	LC Backplane 1.25mm Adapter, Thread-on Style	56.00
1400-01-0055	Soft Carry Case	44.00

FIS FIBER OPTIC INSPECTION MICROSCOPE

MONITOR MODULE

- Large 5.6" TFT LCD display
- Angle-adjustable screen for optimal viewing
- Brightness and contrast dials
- Screen folds for easy portability

HANDHELD VIDEO INSPECTION PROBE

- Easy-focusing knob enables one hand operation
- Interchangeable Probe Tips for inspecting different connector styles
- USB module/software included for viewing and saving images on a PC

OTHER FEATURES

- Rechargeable Batteries provide over 4 hours continuous operation
- AC Power Adapter/Charger
- Aluminum Carry Case with Shoulder Strap
- 1 year limited warranty
- RoHS Compliant

PART #	DESCRIPTION	PRICE
F1-VPKIT200	FIS Hand Held Video Monitor and 200X Microscope Probe	\$995.00
F1-VPUSB	200X Probe USB Adapter, Software (No Monitor) Includes SC, FC and LC tips	725.00
F1-VPKIT200CK	FIS Video inspection Kit with cleaning solution 2.5mm swabs and dry wipes	1,025.00
F1-VPKIT200HH	FIS Handheld Monitor and 200x Probe (includes SC, FC, LC tip)	995.00

FIS PROBE ADAPTER TIPS

PART #	DESCRIPTION	PRICE	PART #	DESCRIPTION	PRICE
F1-VP25	2.5mm Ferrule/PC Male/Patch Cable Inspection Tip	\$60.00	F1-VPLC	LC/PC Bulkhead Inspection Tip	\$65.00
F1-VP25APC	2.5mm Ferrule/APC Male/Patch Cable Inspection Tip	75.00	F1-PVPASMPPTENF	SMPTE Female Bulkhead Inspection Tip	60.00
F1-VP125	1.25mm Ferrule/PC Male/Patch Cable Inspection Tip	60.00	F1-PVPASMPPTENM	SMPTE Male Bulkhead Inspection Tip	65.00
F1-VP125APC	1.25mm Ferrule/APC Male/Patch Cable Inspection Tip	75.00	F1-VPMP0	MPO/MTP/PC Bulkhead Inspection Tip	110.00
F1-VPMPM	MPO/MTP Ferrule Male/Patch Cable Inspection Tip	200.00	F1-VPSCFC	SC/FC/PC Female Bulkhead Inspection Tip	65.00



MAX-FIP

New Rugged tablet inspired design with latest innovations in automated connector and fiber certification. Features a bright 7-inch touchscreen display. Power meter and VFL options. Available automatic fiber image centering to reduce test time. Choose from (3) probe options.

PART #	DESCRIPTION	PRICE
TK-MAX-FIP-410B	Handheld Display with Digital Inspection Probe, Manual Center/Focus, Pass/Fail Analysis Software	\$2,200.00
TK-MAX-FIP-420B	Handheld Display with Digital Inspection Probe, Auto Center, Auto Pass/Fail Analysis Software	2,870.00
TK-MAX-FIP-430B	Handheld Display with Digital Inspection Probe, Auto Center, Auto Focus, Auto Pass/Fail Analysis Software	3,340.00

MAX-FIP OPTIONS:

PART #	DESCRIPTION	PRICE
P2X-XX	Built in Power Meter	\$495.00
VP2X-XX	Built in Power Meter and VFL	695.00
TK-MAX-FIP-430B	Utility Glove for MAX-FIP	75.00
GP-2179	Glove harness	25.00

FIBER INSPECTION PROBES (FIP-410B/420B/430B)

An intelligent and automated inspection tool. The 420B features automatic, fiber image-centering function to reduce test time. Probe has on-board connector end face analysis via ConnectorMax2. USB 2.0 connector with three levels of magnification. Pass/Fail indicator for immediate diagnosis of connector cleanliness. The FIP-430B is 100% automated and the first of its kind. The probe will auto detect, center, focus, analyze and report finds of connector end face.

PART #	DESCRIPTION	PRICE
FIP-410B-XX	Digital Video Inspection Probe with Triple Magnification (probe only)	\$1,595.00
FIP-420B-XX	Digital Video Inspection Probe with Automated Pass/Fail analysis, Auto Centering and Triple Magnification (probe only)	2,295.00
FIP-430B-XX	Digital Video Inspection Probe with Auto Focus, Auto Capture, Auto Detect, Automated Pass/Fail analysis, Auto Centering and Triple Magnification (probe only)	\$2,795.00

EXFO FIBER INSPECTION PROBE TIPS

Several adapter tips available for industry style connectors. Contact an FIS Sales Representative for additional EXFO offerings.

PART #	DESCRIPTION	PRICE
FIPT-400-U12M	Universal patch cable tip 1.25mm ferrules	\$70.00
FIPT-400-U25M	Universal patch cable tip 2.5mm ferrules	70.00
FIPT-400-U25MA	Universal patch cable tip 2.5mm APC ferrules	110.00
FIPT-400-U12MA	Universal patch cable tip 1.25mm APC ferrules	110.00
FIPT-400-FC-SC	FC and SC tip for bulkhead adapter	70.00
FIPT-400-FC-APC	FC/APC and SC/APC tip for bulkhead adapter	110.00
FIPT-400-LC	LC tip for bulkhead adapter	70.00
FIPT-400-LC-APC	LC/APC tip for bulkhead adapter	140.00

EXFO



TK-MAX-FIP KIT





FIT-S205-PRO



HP3 Series Fiber Inspect and Test System

The JDSU HP3-60-P4 and HP3-80-P4 (with integrated patch cord microscope) inspection and test systems combine fiber inspection and optical power measurement into single device. Optical power meter has multiple pre-calibrated wavelengths: 850/980/1300/1310/1490/1550 and 1625nm. Features 2.0-inch TFT LCD, switch to toggle between patch cord input and bulkhead probe, 200x/400x options.

PART #	DESCRIPTION	PRICE
FIT-S205-PRO	Fiber Essentials Kit, 200/400x FBP Probe, VFL, Cleaning, Carrier, with HP2-60-P4 Display	\$3,622.50
FIT-S105-PRO	Fiber Essentials Kit, 200/400x FBP Probe, VFL, Cleaning, Carrier, with HP3-60-P4 Display	3,307.50
FIT-S105	Fiber Optic Inspection and Test Kit 200/400x FBP Probe	2,625.00

HD2 Handheld Inspection with 3.5-inch TFT LCD

The JDSU durable enclosure features high resolution 3.5 display that can detect 1µm particles and scratches. Long battery life provides 8 hours using continuous ON mode utilizing (8) AA batteries. Built in VFL for end to end continuity tests.

PART #	DESCRIPTION	PRICE
FBP-SE05	Inspection Kit, 200/400x FBP Probe with HD2-P4 Display	\$2,415.00



FBP-SM03



HD3-P Handheld Display with 1.8-inch TFT LCD

The JDSU HD3-P can be purchased with stand alone probe or with two microscopes in one system(HD3-P4). The unit has ergonomic small form factor design for ultimate portability. Available with 200x/400x inspection probe.

PART #	DESCRIPTION	PRICE
FBP-SM05	INSPECTION KIT – 200/400X Fiber Bulkhead Probe with HD3-P4 Patch cord integrated 400x microscope	\$2,257.50
FBP-SM03	INSPECTION KIT - 200-400X Fiber Bulkhead Probe with HD3 display	1,890.00



FBP-SD101



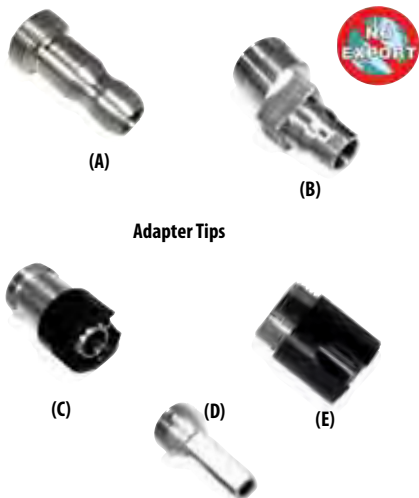
Handheld Probe Microscope with Pass/Fail Analysis

The JDSU P5000i Digital Analysis Microscope is the most versatile and reliable microscope for field applications. Can be used on wide range of instruments. Includes FiberChekPro software for analysis and reporting with PC/Laptop. Universal USB optical power meter also available with pre-calibrated wavelengths.

PART #	DESCRIPTION	PRICE
FBP-SD101	Inspection Kit Digital FBP-P5000i, FiberChekPro Software, FBPT Tips SC, LC, U25M, U12M, carrying case	\$2,400.00
FIT-SD103	Digital Inspection and Test Kit Includes FBP-P5000i Digital Probe Microscope, inspection tips (SC, LC, Univ. 2.5 male, Univ. 1.25 male), MP-60 USB Optical Power Meter with Universal 2.5mm	2,700.00

JDSU ADAPTER TIPS

PART #	DESCRIPTION	PRICE
FBPT-FC	Tip FC Bulkhead for FBP (C)	\$73.50
FBPT-FC-APC	Tip FC-APC Bulkhead for FBP	160.00
FBPT-LC	Tip LC Bulkhead for FBP (D)	73.50
FBPT-SC	Tip SC Bulkhead for FBP (A)	52.50
FBPT-SC-APC	Tip SC-APC Bulkhead for FBP (B)	105.00
FBPT-ST	Tip ST Bulkhead for FBP (E)	73.50
FBPT-U12M	Tip Univ. 1.25mm Patch Cord for FBP	73.50
FBPT-U25M	Tip Univ. 2.5mm Patch Cord for FBP	73.50
FBPT-U25MA	Tip Univ. 2.5mm Patch Cord APC Polish for FBP	84.00
FMAE-CA1	Coupling Adapter Converts FMA Adapters To FME	10.50
FMA-FC-APC	Adapter FC-APC Male Threaded	340.00
FMA-FCPC	Adapter FC Male Threaded	190.00
FMA-LC	Adapter LC Male Threaded	73.50
FMA-SC	Adapter SC Male Threaded	145.00
FMA-SC-APC	Adapter SC-APC Male Threaded	395.00
FMA-ST	Adapter ST Male Threaded	170.00
FMA-U12	Adapter Universal 1.25mm Male Threaded	52.50
FMA-U25	Adapter Universal 2.5mm Male Threaded	42.00
FMA-UAPC	Adapter Universal 2.5mm APC Male Threaded	84.00



Adapter Tips





Fault Locators are a special class of light sources that emit a high intensity visible Red Laser into a patch cable or cable. This light can be used to both check the continuity of a fiber and identify the fiber's far end, or it can be used to visually identify the location of a fiber break. Most Fault Locators come optimized for singlemode fiber use; however they work equally as well with multimode fiber.

	A	B	C	D	E
Manufacturer					
Part Number	F1-9000 F1-9000125	FLS-241-UNIV	VISIFault	F6230A	HILITE
Type	Pocket	Pocket	Pocket	Pocket	Pocket
Operating Wavelength	650nm	635nm	650nm	650nm	650nm
Distance	7km 5km	5km	4km 3km	8km	
Fiber Type	SM/MM	SM/MM	SM/MM	SM/MM	SM/MM
Battery Life/Type	30hrs (2AA)	50hrs(2AAA)	80hrs(2AA)	N/A(1AA)	4hrs(1AAA)
Optical Interface	2.5mm 1.25mm Universal	2.5mm Universal	2.5mm Universal	2.5mm Universal	2.5mm Universal
Dimension	7.1" Long x 0.86"	6 7/8" x 1"	6.2" x 2.0" x 1.3"	6.2" x 0.63" x 2.36"	2.8" x 1.4" x 0.6"
Special Feature	Rugged Aluminum Housing	Weather Proof	Long Battery Life	Low Battery Indicator	Small Key Chain Size
Price	\$139.95 \$159.95	\$370.00	\$340.00	\$169.95	\$279.00

VFL ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-9000AD	1.25mm Adapter (Compatible with PFLs using Universal 2.5mm Adapters)	\$59.00
GP-1008	EXFO Adapter (convert 2.5mm head to 1.25mm) for FLS-241-UNIV	125.00



FIS VISUAL FAULT LOCATOR

The FIS Visual Fault Locator is an essential tool for troubleshooting a fiber optic system. A 1mW packaged laser sends a 650nm visible red light down the length of the fiber. The escaping light allows easy identification of breaks or severe macro bends. Internal optics are used to optimize the unit's performance for either singlemode or multimode applications. Fiber end identification and continuity testing for long distances are also natural applications.

Each Unit Includes: Manual, (1) 9v Batteries, and Carry Case.

PART #	DESCRIPTION	PRICE
OF-1000-UF	Visual Fault Locator with 2.5mm Universal Adapter (MM and SM)	\$295.00
OF-1000U-LC	Visual Fault Locator with LC Adapter (MM and SM)	295.00
OF-1000U-FCA	Visual Fault Locator with FC/APC Adapter (SM)	395.00
OF-1000U-SCA	Visual Fault Locator with SC/APC Adapter (SM)	395.00
OF-1000U-MTRJ	Visual Fault Locator with MT-RJ Adapter (MM and SM)	495.00





AFL FSM-70S

The FSM 70S is the world's fastest and most robust core alignment fusion splicer. Incorporating the proven ruggedized features pioneered by Fujikura, the 70S has added automated and enhanced user control features to increase splicing efficiency. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. Fully programmable "auto open sheath clamps" open one sheath clamp, after the tensile test, to prepare the fiber for removal. A new automated "clamshell design" tube heater applies heat to both sides of the splice protection sleeve resulting in a 14-second shrink time. The result is a total splice process time of approximately 21 seconds. Ruggedness and durability are greatly enhanced by a mirror-less optical system and "severe-impact resistant" monitor. Battery capacity is now 200 splices/shrinks. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before.

FSM-70S Includes: (S015590) CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screwdriver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, and CC30 Transit Case with Carrying Strap

PART #	DESCRIPTION	PRICE
S015580	FSM-70S	\$12,815.00
S015590	FSM-70S Kit plus CT-30A Cleaver	13,900.00
S015591	FMS-70S Kit Plus CT-30A cleaver, BTR-09 Battery and DCC-14 Charge Cord	14,225.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
S013532	Electrodes for FSM 18/60/70S (Pair)	\$75.00
S014548	250µm Fiber Holders (Pair)	240.50
S014549	900µm Fiber Holders (Pair)	240.00
S014535	ADC-13 AC Adapter	370.00
S014540	BTR-08 Battery (160 splice/heater cycles)	296.00
S014541	DCC-14 Battery Charge Cord (for BTR-08)	37.00
S013552	DCC-12 Power Cord (Connects ADC-13 to Cigarette Socket)	92.50
S015581	BTR-09 Battery (160 Splice/heat cycles) - 70S Splicer	277.50
S015582	DCC-18 Battery Charge Cord - 70S Splicer	37.00

AFL FSM-70R

The FSM 70R is equipped with a precision, fixed v-groove for splicing single fibers or ribbon fiber up to 12 fibers. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. A new auto-start "clamshell design" tube heater applies heat to both sides of the splice protection sleeve resulting in a 40-second shrink time for 12-fiber ribbon. Ruggedness and durability are greatly enhanced by a mirror-less optical system and "severe-impact resistant" monitor. Battery capacity is now 110 splices/shrinks.

70R Fusion Splicer Kit (with cleaver) Includes: (S015670) CT30 Cleaver, HJS-02 Stripper, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), FH-50-12 Fiber Holder, USB Cable, Alcohol Dispenser, Screw Driver, Sleeve Loader, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap.

PART #	DESCRIPTION	PRICE
S015669	FSM-70R Kit	\$13,225.00
S015670	FSM-70R Kit Plus CT-30 Cleaver and Hot Jacket Stripper	14,900.00
S015671	FSM70R Kit Plus Cleaver, Stripper, Battery, and Charger Cord	15,225.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
S013532	Electrodes for 70R (Pair)	\$75.00
S013828	FH-50-12 12 Fiber Holders (Pair)	240.00
S013820	FH-50-8 8 Fiber Holders (Pair)	240.00
S013812	FH-50-4 4 Fiber Holders (Pair)	240.00
S013800	FH-50-250 for 250µm Single Fiber (Pair)	240.00
S013804	FH-50-900 for 900µm Single Fiber (Pair)	240.00
S014535	ADC-13 AC Adapter	370.00
S014540	BTR-08 Battery (160 splice/heater cycles)	296.00
S014541	DCC-14 Battery Charge Cord (for BTR-08)	37.00
S013552	DCC-12 Power Cord (Connects ADC-13 to Cigarette Socket)	92.50
S010532	ASW-02 Aerial Workstation	693.75
S014773	Portable Tripod Workstation Kit	495.00



FSM-70S
Fusion Splicer

Splice-On
Connector
Compatible



FEATURES

- Automated and programmable wind protector
- 14-second automated tube heater
- Fully ruggedized for shock, dust and moisture
- Li-Ion battery with 200 splices/shrinks per charge
- 5 mm cleave length for splice-on connector or small package needs
- Sheath clamp or fiber holder operation
- Onboard training and support videos
- Internet software upgrades
- Perfect for use with Splice-On Connectors



FSM-70R
Fusion Splicer

Splice-On
Connector
Compatible



FEATURES

- Automated and programmable wind protector
- 40-second automated tube heater
- Fully ruggedized for shock, dust and moisture
- Li-Ion battery with 110 splices/shrinks per charge
- Internet software upgrades
- Multi-function transit case with integrated workstation
- Perfect for use with Splice-On Connectors



AFL FSM-19S

The FSM-19S is a low cost, fixed v-groove single fiber splicer with similar features found on the FSM-70S. The 19S has added automated and enhanced user control features to increase splicing efficiency. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. Fully programmable "auto open sheath clamps" open one sheath clamp, after the tensile test, to prepare the fiber for removal. A new automated "clamshell design" tube heater applies heat to both sides of the splice protection sleeve resulting in a faster shrink time. Ruggedness and durability are greatly enhanced by a mirror-less optical system and "severe-impact resistant" monitor. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before.

19S Fusion Splicer Kit includes: (S015680) CT30A Cleaver, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), S70A Sheath Clamp, USB Cable, Alcohol Dispenser, Screwdriver, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, and CC30 Transit Case with Carrying Strap

PART #	DESCRIPTION	PRICE
S015679	FSM-19S Kit	\$5,995.00
S015680	FSM-19S Kit with CT-30A Cleaver	6,995.00
S015681	FSM-19S Kit with CT-30A Cleaver, BTR-09 Battery, and DCC-18 Charge Cord	7,325.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
S013532	Electrodes for 18S (Pair)	\$75.00
S014548	FH-60-250-250µm Fiber Holders (Pair)	240.00
S014549	FH-60-900 900µm Fiber Holders (Pair)	240.00
S015585	ADC-18 AC Adapter	370.00
S015581	BTR-09 Battery	296.00
S015582	DCC-18 Battery Charge Cord (for BTR-08)	37.00
S013552	DCC-12 Power Cord (Connects ADC-13 to Cigarette Socket)	92.50
S010532	ASW-02 Aerial Workstation	693.75
S014773	Portable Tripod Workstation Kit	495.00

AFL FSM-12S

The 12S is the world's smallest, lightest and most portable fusion splicer available today. Despite its incredibly small size, this ruggedized, full-featured unit offers unmatched versatility for splicing in the most challenging environments. The innovative transit case and work tray provide multiple options for the best utilization of available work space while the long life battery provides power for up to 100 splice cycles which include application of the splice protection sleeve. The large 4.5" monitor provides a crystal clear image, even in the brightest sunlight, for evaluating splice quality. The electrode life has been extended to 3,000 splices, minimizing downtime for replacement and stabilization. Software updates are accomplished via the internet allowing users to quickly update their software as new splice programs become available. The 12S is also fully compatible with the FuseConnect line of fusion installable connectors.

Fujikura 12S Fusion Splicer Kit includes: (S015522) Fujikura 12S Fusion Splicer, CT-30 Cleaver, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), FH-60-250 Fiber Holders (Pair), FH-60-900 Fiber Holders (Pair), ACC-09 Power Cord, ELCT2-12 Spare Electrodes (Pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case

PART #	DESCRIPTION	PRICE
S013921	FSM-12S Kit	\$4,795.00
S015522	FSM-12S Kit 1 plus CT-30 Cleaver	5,995.00
S015530	FSM-12S Kit 2 250 and 900µm Fiber Holders, Spare Electrodes, Transit Case	5,595.00

FSM-11R

FSM-11R Kit Includes: Transit Case, Battery, FH-50-4 Fiber Holders, Battery Charger, Operation Manual, Spare Electrodes, AC Adapter, and AC Power Cord.

PART #	DESCRIPTION	PRICE
S013960	FSM-11R Kit up to 4 Fiber Ribbon, (No Single Fiber)	\$6,995.00
S013992	FSM-11R Plus Battery Powered Hot Jacket Stripper and CT-30 Cleaver	8,675.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
S014028	Electrodes for FSM-11S/R /12S Splicers	\$75.00
S015527	BTR-10 Battery - 12S Splicer	370.00
S015523	ADC-19 AC Adapter -12S Splicer	185.00



Splice-On
Connector
Compatible

**FSM-19S
Fusion Splicer**

FEATURES

- Automated and programmable wind protector
- Fully ruggedized for shock, dust and moisture
- Li-Ion battery with 180 splice/heat cycles per charge
- 5 mm cleave length for splice-on connector
- Sheath clamp or fiber holder operation
- On-board training and support videos
- Internet software upgrades
- Multi-function transit case with integrated workstation
- Perfect for use with Splice-On Connectors



Splice-On
Connector
Compatible

FSM-12S

FEATURES

- World's smallest splicer at 4.76"W x 6.38"D x 2.24"H
- Fully ruggedized for shock, moisture and dust resistance
- Transit case converts to easy to use workstation
- Dual camera, fixed v-groove alignment technology
- Extended life electrodes
- Long life battery (100 splices/shrinks per charge)
- Perfect for use with Splice-On Connectors

Splice-On Connector Compatible



S178A
Fusion Splicer



Constructed to Resist Everyday Drops



Compatible with Splice on Connectors

FITEL S178A SPLICER

The FITEL® S178 Hand-Held Core-Alignment Fusion Splicer is the latest, state-of-the-art addition to the S17x series of splicers. By combining speed, precision, durability and portability in one unit, the S178 Fusion Splicer ushers in an entirely new range of applications for core alignment splicing.

The S178A is equipped with a new alignment system that can reduce the splicing time by up to 20%. In addition, the improved heating mechanism also reduces the protection sleeve shrink time by more than 30% and the newly incorporated USB 2.0 interface speeds up PC communication and image/video transfer, while enhancing reliability.

FEATURES

- Rugged and compact handheld design
- Fast splice (7 sec) and Fast Heating (25 sec)
- 200 cycles (Splicing and Heating)
- Available for All METRO/LAN/FTTx fibers including ultra bend-insensitive fibers
- Easy software upgrade via the internet
- Easily exchanged fiber holder systems
- Auto-start shrink sleeve oven
- Large memory - 3,000 splice data and 100 images
- Perfect for use with Splice-On Connectors

S178 Extended Kit Includes: S178A-3-0 Main Body, 250µm and 900µm Fiber Holders, AC Adapter for S178, Spare Electrodes, Hard Carrying Case, Cleaning Brush, Electrode Cleaning Disc, Fiber Stripper, Two Batteries, Cleaning Fluid, Fiber Wipes and User Manual.

PART #	DESCRIPTION	PRICE
S178A-EX-10V2	Extended Kit with 10mm Clamps	\$13,000.00
S178A-EX-900V2	Extended Kit with 250µm and 900µm Fiber Holders	13,400.00



FITEL S123C/S123M12 SPLICER

With its super low profile and new user interface, the FITEL S123 V-Groove Alignment Splicer Series offers next generation workability for every splicing field: FTTx, LAN, backbone or long-haul installations. Combining the portability, power, flexibility and field ruggedness of FITEL's previous units, the S123 delivers fast and consistent splicing with outstanding mobility and ease-of-use.

FEATURES:

- 13 Second Splice in High-Speed Mode
- High-End Performance with Super-Low Cost
- Uses Fiber Holding System
- Built in Shrink Oven
- Perfect for use with Splice-On Connectors

S123 Extended Kit Includes: S123C-A Main Body with Heater, Hard Carrying Case, Stripper, Cleaver, 250µm Fiber Holders (pair), 900µm Fiber Holders (pair), AC Adapter, Spare Electrodes (1 pair), Electrode Cleaning Disk, Cleaning Brush, Two Batteries, Cleaning Fluid, Fiber Wipes and User Manual.

PART #	DESCRIPTION	PRICE
S123C-EX-10V2	Extended Kit with 10mm Clamps	\$5,800.00
S123C-EX-900V2	Extended Kit with 250µm and 900µm Fiber Holders	5,990.00
S123M12-V2-KIT	Kit Includes Cleaver and Ribbon Fiber Holders	14,900.00

PART #	DESCRIPTION	PRICE
S969	Electrodes for S178A/S153A/S123C (Pair)	\$100.00
S972	DC Adapter for S123C	360.00
S712S-900	900µm Fiber Holders for S123C (Pair)	450.00
S712S-250	250µm Fiber Holders for S123C (Pair)	450.00
S945	High Capacity Battery	425.00
S967	Electrodes for S122M12 (Pair)	100.00



S123C
Low Profile Splicer
V-Groove Alignment

Splice-On Connector Compatible



S123 M12 on Tripod



FITEL S153A SPLICER

The FITEL® S153 Fusion Splicer uses new Active V-Groove Technology to deliver low loss splices while helping to eliminate common Fixed V-groove splicing errors. Equipped with a new alignment system that can save up to 20% on splicing time, the S153 splicer's improved heating mechanism can also reduce protection sleeve shrink time by more than 30%. In addition, a newly incorporated USB 2.0 interface speeds PC communication and image/video transfer, while enhancing reliability.

FEATURES

- Rugged and Compact Handheld Design
- Fast Splicing and Heating
- 200 Cycles per Charge
- Available for all METRO/LAN/FTTx Fibers
- Easy Software Upgrades
- Large Memory for Storage of Splice Data and Images
- RoHS Compliant
- Perfect for use with Splice-On Connectors

S153A Extended Kit Includes: S153A-3-0 Main Body, Hard Carrying Case, Stripper, Cleaver, 250µm Fiber Holders (pair), AC Adapter, Spare Electrodes, Electrode Cleaning Disk, Cleaning Brush, Two Batteries, Cleaning Fluid, Fiber Wipes and User Manual.

PART #	DESCRIPTION	PRICE
S153A-EX-10V2	Extended Kit with 10mm Clamps	\$8,650.00
S153A-EX-900V2	Extended Kit with 250µm and 900µm Fiber Holders	8,900.00

S153 ACCESSORIES

PART #	DESCRIPTION	PRICE
S712T-010	10mm Fiber Clamps	\$450.00
S712T-016	16mm Fiber Clamps	450.00
S712S-250	250µm Fiber Holders	450.00
S712S-500	500µm Fiber Holders	450.00
S712S-900	900µm Fiber Holders	450.00
S712S-160	160µm Fiber Holders	750.00



S153A Fusion Splicer



HCC-01



F1-FTLshelf



UNIVERSAL ACCESSORIES FOR S178, S153, S123

PART #	DESCRIPTION	PRICE
F1-FTLshelf	FIS Utility/SOC Oven Shelf for Fitel Splicers - NEW	\$49.95
D5111	Electrode Sharpener	8.00
USB-01	USB Cord	15.00
CTX-01	Cooling Tray	40.00
SCC-01	Soft Carrying Case	136.00
S943B	Battery	150.00
CDC-01	Car Cigarette Socket Cord	150.00
HCC-01	Hard Carrying Case	250.00
WBT-01	Working Belt	450.00
S712CSGC9R	OFS Cordage Holder for 2mm/3mm	395.00



Splice-On Connector Compatible

NEW



FEATURES

- Fast Splice Time – 9 seconds (Typical)
- Dual Protection Sleeve Oven
- Up to 250 Splice/Heat cycles per battery charge
- Perfect for use with Splice-On Connectors with Metal SOC Holder

Greenlee 910FS

The 910FS is a full featured core alignment single fiber fusion splicer suitable for all SM and MM applications. The 5.7" LCD monitor has selectable orientation and the Lilon battery is chargeable during operation. Heater operation is programmable to optimize cycle time and results can be downloaded with included USB and serial cables. KIT1 includes a cleaver, all fiber holders (250um, 900um and PM) spare electrodes, cleaning accessories, battery, carry case and all materials necessary to install either Greenlee or FIS Cheetah brand splice on connectors. KIT2 also includes the PA1171 fiber/jacket stripper and extra battery. All splicers are backed by the Greenlee factory service center in Vista, CA and a loaner program is available.

910FS-KIT1	Core Alignment Splicer and Cleaver Kit	\$8,250.00
910FS-KIT2	Core Alignment Splicer and Cleaver Kit with Stripper and Extra Battery	\$8,550.00

CONTACT YOUR FIS SALES REPRESENTATIVE FOR YOUR 910FS PARTS AND ACCESSORIES

DID YOU KNOW? - FUSION SPLICING

Core Alignment Splicers use multiple cameras to inspect the two cleaved fibers before fusing and allows for multiple axis movement of the fibers for precise alignment and a typical loss of 0.02dB. This precision is necessary for all singlemode fiber applications and provides the best performance on multimode fiber. Clad Alignment Splicers also have multiple cameras but only allow for single axis movement of the fiber and alignment is aided by a fixed V-groove. The typical loss for this type of splice is 0.05dB. As this is not a precision method, it is best suited for multimode applications.

Now get both Speed and Security with FIS' NEW Cheetah SOC Installer Certification and Extended Warranty!



SOC Certification

- Review Splicer Fundamentals
- Troubleshooting Installations
- Proper Installation of the SOC

Extended Warranty

- 20 Year Coverage
- Available Worldwide
- Applicable to all Styles

Contact Your Sales Rep or Visit www.fiberinstrumentsales.com for Further Details



F1-LYNX2000



F1-LYNXWKS



F1-LYNX

FIS LYNX™ PRECISION CLEAVER

The LYNX provides clean, accurate cleaves required for fusion splicing. LYNX is also ideal for preparing fiber for quick-term style connectors such as Bobtails, UNICAMs and other pre-polished connectors. LYNX features a cleave angle of 90 degrees +/- 0.5 degrees. Its 16-position blade provides approximately 48,000 cleaves. LYNX cleaves single fibers (250-900µm). The LYNX Precision Cleaver can be used alone or mounted to an optional Work Tray that includes a goose neck LED.

PART #	DESCRIPTION	PRICE
F1-LYNX	LYNX Precision Cleaver - 3 Step Precision Cleaver	\$595.00
F1-LYNXWKS	LYNX Cleaver with Illuminated Workstation	650.00
F1-LYNX2000	LYNX One-Step Deluxe Lynx Cleaver	New Lower Price: 625.00
F1-LYNXBLADE	LYNX Replacement Blade	95.00

AFL CLEAVERS

The CT-30 Cleaver sets the standard for portability, reliability and ease of use. Available for either single fiber or ribbon splicing (up to 12 fiber ribbons) applications. The rugged, yet scaled-down design of the CT-10A cleaver offers cleave quality approaching that of the more expensive high precision cleavers but at a more economical price. The 16-position blade in each cleaver offers long life and performs cleaving in one single step.

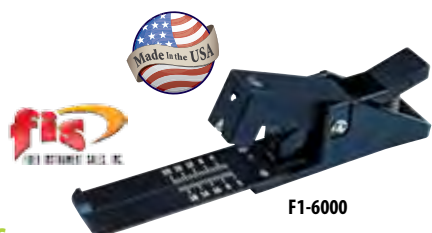
PART #	DESCRIPTION	PRICE
S014080	CT-30A Cleaver	\$1,090.00
S014076	CT-30 Ribbon Cleaver	1,036.00
S014784	CT-10A Cleaver	647.50
S014819	Replacement Blade for CT-10A	222.00
S012828	Replacement Blade for CT-20/30 Series	92.50
S014096	AD-30A Adapter Plate (for variable length cleaving with the CT-30)	83.25
S014100	AD-30B Adapter Plate (for 16mm fixed cleave length with the CT-30)	83.25



FITEL PRECISION CLEAVER

The Fitel S326A precision cleaver solves the dilemma of stray fibers with a unique disposal system incorporated into the design. The automatic cleave function provides constant cleaving pressure and improves cleave quality. The cutting blade locks into place after scoring, preventing double scoring. Also can be used to cleave ribbon fiber.

PART #	DESCRIPTION	PRICE
S326A	Cleaver	\$985.00
S326X24	Replacement Blade	130.00
S712CSGC9R	Cordage Holder for 3mm	395.00



F1-6000



F1-0010

FIELD CLEAVERS

Choose from these three cleavers, suitable for use with quick-term connectors and optimal for mechanical splicing. Each cleaver provides a guide for variable cleave lengths from 5-20mm. The blades will perform over 6,000 cleaves before replacement is necessary. The score and snap function is easy to use and preferred by many installers.

Note: No Export Available for F1-0010 and CL008.

PART #	DESCRIPTION	PRICE
F1-6000	FIS Cleaver	\$139.00
F1-0010	FITEL Cleaver	185.00
S315X02	Replacement Leaf Spring (suitable for all three cleavers)	60.00
F1-60CBL	FIS Replacement Blade (Carbide) Suitable for both cleavers	35.00
F1-60DBL	FIS Replacement Blade (Diamond)	60.00
CL008	FITEL Replacement Blade (Carbide) suitable for all three cleavers	60.00

Cheetah

Splice-On Connector

TERMINATIONS IN LESS THAN 3 MINUTES

Visit us on our website to view the instructional video on the Cheetah SOC



F1-LCOM3-SOC

Free Fusion Splicer with Purchase of 2,500 Connectors in any combination!!

Limited time offer



3mm FIS Cheetah SOC™



12-Pack FIS Cheetah SOC™

FIS CHEETAH SOC™

The FIS Cheetah SOC™ is the quickest pre-polished factory terminated pigtail to prepare, splice and install. The Cheetah SOC™ 27mm splice protection sleeve is encapsulated and protected by the strain relief boot eliminating the need for splice trays, chips and extra cabinets. When used with the required universal holder it allows for the SOC to be used within a variety of fiber optic fusion splicers.

Each 900µm Cheetah SOC™ Includes: Connector, Cleave Protector, Extended Dust Cap, 900µm Boot, and Fusion Splice Sleeve.

PART #	DESCRIPTION	6pk PRICE	12pk PRICE	100pk PRICE
F1-LCPC-SOC-X	LC/APC Singlemode, Green 900µm Boot	\$47.70	\$95.40	\$795.00
F1-LCUPC-SOC-X	LC/UPC Singlemode, White 900µm Boot	41.70	83.40	695.00
F1-LC62-SOC-X	LC/PC 62.5µm Multimode (OM1), Beige 900µm Boot	35.70	71.40	595.00
F1-LC50-SOC-X	LC/PC 50µm Multimode (OM2), Black 900µm Boot	35.70	71.40	595.00
F1-LCOM3-SOC-X	LC/PC 50µm Multimode (OM3), Aqua 900µm Boot	35.70	71.40	595.00
F1-LCOM4-SOC-X	LC/PC 50µm Multimode (OM4), Magenta 900µm Boot	41.70	83.40	695.00
F1-LCOM4-SOCAQ-X	LC/PC 50µm Multimode (OM4), Aqua 900µm Boot	41.70	83.40	695.00
F1-SCAPC-SOC-X	SC/APC Singlemode, Green 900µm Boot	47.70	95.40	795.00
F1-SCUPC-SOC-X	SC/UPC Singlemode, White 900µm Boot	41.70	83.40	695.00
F1-SC62-SOC-X	SC/PC 62.5µm Multimode (OM1), Beige 900µm Boot	35.70	71.40	595.00
F1-SC50-SOC-X	SC/PC 50µm Multimode (OM2), Black 900µm Boot	35.70	71.40	595.00
F1-SCOM3-SOC-X	SC/PC 50µm Multimode (OM3), Aqua 900µm Boot	35.70	71.40	595.00
F1-SCOM4-SOC-X	SC/PC 50µm Multimode (OM4), Magenta 900µm Boot	41.70	83.70	695.00
F1-STUPC-SOC-X	ST/UPC Singlemode, White 900µm Boot	41.70	83.70	695.00
F1-ST62-SOC-X	ST/PC 62.5µm Multimode (OM1), Beige 900µm Boot	35.70	71.40	595.00
F1-ST50-SOC-X	ST/PC 50µm Multimode (OM2), Black 900µm Boot	35.70	71.40	595.00
F1-STOM3-SOC-X	ST/PC 50µm Multimode (OM3), Aqua 900µm Boot	35.70	71.40	595.00
F1-FCAPC-SOC-X	FC/APC Singlemode, Green 900µm Boot	47.70	95.40	795.00
F1-FCUPC-SOC-X	FC/UPC Singlemode, White 900µm Boot	41.70	83.70	695.00
F1-FC62-SOC-X	FC/PC 62.5µm Multimode (OM1), Beige 900µm Boot	35.70	71.40	595.00
F1-FC50-SOC-X	FC/PC 50µm Multimode (OM2), Black 900µm Boot	35.70	71.40	595.00
F1-FCOM3-SOC-X	FC/PC 50µm Multimode (OM3), Aqua 900µm Boot	35.70	71.40	595.00

*When ordering replace the "X" to specify 12= 12packs, 100= 100packs.

NEW 3mm CHEETAH SOC™

Using a factory-terminated and pre-polished connector, the 3.0mm Cheetah Splice-On Connector™ (SOC) provides a connection that meets or exceeds industry standards for loss and back reflection. The Splice-On Connector is provided with a factory-cleaved 900µm fiber stub to ensure ease of use and optimal performance.

The unique 3mm boot allows the entire splice to be concealed and protected, and provides a simpler cable management system within the rack or enclosure. The 3.0mm SOC is designed to work with the Fitel family of fusion splicers and the Fitel S325A Cleave (cordage fiber holder required). The unique UV Cure Protection Sleeve can be cured in 30 seconds using the UV Cure Station.

- Splice-On solution for 3mm applications
- Splice protection encapsulated and protected by the strain relief boot
- Same ease of use as the 900µm SOC

Each 3.0mm Cheetah SOC™ Includes: Connector, Cleave Protector, Extended Dust Cap, 3.0mm Boot, and UV Splice Protection Sleeve

PART #	DESCRIPTION	12pk PRICE	100pk PRICE
F1-LCPC-SOC-30-X	LC/APC Singlemode, Green 3.0mm Boot	\$107.40	\$895.00
F1-LCUPC-SOC-30-X	LC/UPC Singlemode, White 3.0mm Boot	95.40	795.00
F1-LC62-SOC-30-X	LC/PC 62.5µm Multimode (OM1), Beige 3.0mm Boot	83.40	695.00
F1-LC50-SOC-30-X	LC/PC 50µm Multimode (OM2), Black 3.0mm Boot	83.40	695.00
F1-LCOM3-SOC-30-X	LC/PC 50µm Multimode (OM3), Aqua 3.0mm Boot	83.40	695.00
F1-LCOM4-SOC-30-X	LC/PC 50µm Multimode (OM4), Magenta 3.0mm Boot	95.40	795.00
F1-LCOM4-SOC-30-X	LC/PC 50µm Multimode (OM4), Aqua 3.0mm Boot	95.40	795.00
F1-SCAPC-SOC-30-X	SC/APC Singlemode, Green 3.0mm Boot	107.40	895.00
F1-SCUPC-SOC-30-X	SC/UPC Singlemode, White 3.0mm Boot	95.40	795.00
F1-SC62-SOC-30-X	SC/PC 62.5µm Multimode (OM1), Beige 3.0mm Boot	83.40	695.00
F1-SC50-SOC-30-X	SC/PC 50µm Multimode (OM2), Black 3.0mm Boot	83.40	695.00
F1-SCOM3-SOC-30-X	SC/PC 50µm Multimode (OM3), Aqua 3.0mm Boot	83.40	695.00
F1-SCOM4-SOC-30-X	SC/PC 50µm Multimode (OM4), Aqua 3.0mm Boot	95.40	795.00
F1-STUPC-SOC-30-X	ST/UPC Singlemode, White 3.0mm Boot	95.40	795.00
F1-ST62-SOC-30-X	ST/PC 62.5µm Multimode (OM1), Beige 3.0mm Boot	83.40	695.00
F1-ST50-SOC-30-X	ST/PC 50µm Multimode (OM2), Black 3.0mm Boot	83.40	695.00
F1-STOM3-SOC-30-X	ST/PC 50µm Multimode (OM3), Aqua 3.0mm Boot	83.40	695.00

*When ordering replace the "X" to specify 12= 12packs, 100= 100packs.

900µm CHEETAH SOC™ ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-SOC-OVEN	Cheetah Splice-On Connector Sleeve Oven	\$295.00
F1-SOCHOLDER	SOC Universal Holder	4.95
F1-SOCMTL-FIS	FIS Metal SOC Holder for the FIS Super Cougar	100.00
F1-SOCMTL-AR	FIS Metal SOC Holder for AFL Splicers (11S, 60R12, 18R, 11R, 17S-FH, 50R, 17R)	100.00
F1-SOCMTL-A	FIS Metal SOC Holder for the AFL 60S and 18S Splicers	100.00
F1-SOCMTL-F	FIS Metal SOC Holder for the OFS Fitel Splicers (S122, S123C, S123M4, S123M8, S123M12, S178A, S153A)	100.00
F1-SOCMTL-S	FIS Metal SOC Holder for the Sumitomo Splicers (TYPE-39FH, TYPE-25, Quantum Q101-CA, TYPE-66, TYPE-65M24)	100.00
F1-FTLSHELF	FIS Utility/SOC Oven Shelf for Fitel Splicers (See page 49)	49.95
F1-AFL7SHELF	FIS Utility/SOC Oven Shelf for AFL Splicers	49.95



F1-SOC-OVEN



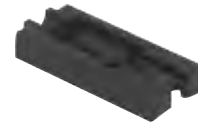
F1-FTLSHELF

CHEETAH SOC™ COMPATIBLE CHART

Manufacturer	Splicer Model	SOC Cordage Size Compatibility	Metal Holder Compatibility	Metal Holder Part Number	Universal Holder Compatibility
FIS	Super Cougar	900µm only	All Versions	F1SOCMTLFIS	All Versions
AFL/Fujikura	FSM-11(S/M)	900µm and 3.0mm	All Versions	F1SOCMTLAR	All Versions
	FSM-12S			F1SOCMTLA	N/A
	FSM-17S		SC and LC Only		
	FSM-18S		SC, LC and ST Only		
	FSM-19S				
	FSM-60(S/R)				
	FSM-70(S/R)				
Furukawa/Fitel	S122 (A/C/M)	900µm and 3.0mm	All Versions	F1SOCMTLF	All Versions
	S121 (A/M)				
	S123 (C/M)				
	S153				
	S178A				
Sumitomo	Type-25e (U/S/M)	900µm only	All Versions	F1SOCMTLS	All Versions
	Type-39FH				N/A
	Type-46				All Versions
	Type-66				N/A
	Quantum (Q101-CA)				N/A
INNO	IFS 10	900µm only	All Versions	F1SOCMTLIFS10	N/A
	IFS 15				N/A
Greenlee	910FS	900µm only	All Versions	GREENSOCHLDR	N/A



F1-SOCMTL-FIS



ABS Plastic Injection-Molded SOC Holder



View the Cheetah SOC™ video

3.0mm CHEETAH SOC™ ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-9775	UV Cure Station	\$395.00
F1-NOA81	UV Adhesive 6cc Syringe	22.00
F1-SOC-30FTLHLDR	FIS 3.0mm SOC Cordage Holder for Fitel Splicers	99.95
F1-SOC-30AFLHLDR	FIS 3.0mm SOC Cordage Holder for AFL Splicers	99.95
F1-SOC-30CRIMPDI	FIS Crimp Die for the 3.0mm SOC (Crimp Die Only)	119.95
F1-SOC-30CRIMPTOOL	FIS Crimp Tool (Die and Handle) for the 3.0mm SOC	139.95
F1-SOC-30STRIPCHART	3mm SOC Strip Chart	5.95



F1-SOC30FTLHLDR



F1-NOA81



F1-9775



F1-LC50SOCKYBL



F1-LC50SOCKYRD



F1-LC50SOCKYSL



F1-LC50SOCKYYL



F1-LCADPTKYBL



F1-LCADPTKYRD



F1-LCADPTKYSL



F1-LCADPTKYYL

FEATURES

- The solution to managing multiple networks with reduced risks
- Connectors and Adapters prevent improper connection of separate networks with common access points
- 12 color-coded, keyed designs to limit improper network connections
- Each connector/adaptor will mate only with same-color adapter/connector

FIS Cheetah Keyed LC Splice-On Connector Solution offers mechanical network security for organizations desiring to segregate networks due to privacy or security concerns. There are 12 connector-adaptor combinations, each color-coded to assist identification of the combination. The connector and adaptor colors must match, or the keying will prevent them from carrying the signal. LC SECURE connectors won't even mate with standard LC adapters. Sold in 6 packs or 100 packs.

FIS KEYED LC CONNECTORS

PART #	DESCRIPTION	PRICE (Each)	100pk PRICE
F1-LCxxSOCKYBL	Blue, SIMPLEX LC KEYED SOC, 900µm with beige clip	\$9.45	\$895.00
F1-LCxxSOCKYOR	Orange, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYOL	Olive, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYBR	Brown, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYSL	Slate, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYWH	White, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYRD	Red, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYBK	Black, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYYL	Yellow, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYVL	Violet, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYRS	Rose, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00
F1-LCxxSOCKYQA	Aqua, SIMPLEX LC KEYED SOC, 900µm with beige clip	9.45	895.00

xx- replace with optical fiber type:

50=OM2(50µm), OM3=OM3(50µm), OM4=OM4(50µm), 62=OM1(62.5µm), UPC=Singlemode

FIS KEYED ADAPTERS

PART #	DESCRIPTION	SM 100pc	MM PRICE	MM 100pc
F1-LCADPTKYBL-XX	Blue, Duplex LC KEYED Adapter, SC Footprint with Flange	\$495.00	\$4.45	\$410.00
F1-LCADPTKYOR-XX	Orange, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYOL-XX	Olive, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYBR-XX	Brown, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYSL-XX	Slate, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYWH-XX	White, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYRD-XX	Red, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYBK-XX	Black, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYYL-XX	Yellow, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYVL-XX	Violet, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYRS-XX	Rose, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00
F1-LCADPTKYQA-XX	Aqua, Duplex LC KEYED Adapter, SC Footprint with Flange	495.00	4.45	410.00

xx- replace with optical fiber type: SM-Singlemode, MM-Multimode

2mm and 900µm FUSECONNECT™ Versions Available



AFL FUSECONNECT™

FuseConnect utilizes a fusion splicer to terminate a connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance of >65dB return loss in an SC/APC configuration. Designed to work with an industry standard 10mm cleave length and splicers utilizing a fiber holder system, FuseConnect is compatible not only with Fujikura's fusion splicers, but also with most other industry available, fiber holder-based fusion splicing platforms.

PART #	DESCRIPTION	PRICE - 6pack
FUSE-SC-3SMA-6	SM, SC/APC, 3mm boot, Green (package of 6)	\$113.15
FUSE-SC-3SMU-6	SM, SC/UPC, 3mm boot, Blue (package of 6)	111.40
FUSE-SC-3M62-6	MM, 62.5µm, SC, 3mm boot, Beige (package of 6)	110.20
FUSE-SC-3M50-6	MM, 50µm, SC, 3mm boot, Black (package of 6)	110.20
FUSE-SC-3M50L-6	MM, 50µm, 10GIG, SC, 3mm boot, Aqua (package of 6)	110.20
FUSE-LC-2M62-6	MM, 62.5µm, LC, 2mm boot, Beige (package of 6)	116.65
FUSE-LC-2M50-6	MM, 50µm, LC, 2mm boot, Black (package of 6)	116.65
FUSE-LC-2M50L-6	MM, 50µm, 10GIG, LC, 2mm boot, Aqua (package of 6)	116.65
S014516	Installation Kit for: FSM-11R, FSM-11S	1,150.00

NOTE: Use AFL Splicers with Fiber Holders for FuseConnect and Installation kit is recommended for best performance



FITEL SPLICE-ON CONNECTORS

FITEL's connector termination system allows for unsurpassed performance and flexibility in the field. The new "splice-on" connector (SOC) eliminates the need for field polishing and significantly improves the quality of the termination. FITEL's factory polished ferrules with pre-cleaved fiber stubs are spliced onto the field fiber utilizing FITEL's proprietary ferrule holder and fusion splicer. The connector is easily assembled by using a process that requires minimal skill or training. These connectors are optimal for use in data center applications and allow for easy field repair of pre-terminated splitters, fan outs, and drop terminals. Additionally, the FITEL SOC system requires no polishing or epoxy, increasing the quality and consistency of field connector termination. Total installation time is greatly reduced compared to traditional methods. Both singlemode and multimode versions are available.



900µm

PART #	DESCRIPTION	PRICE
FIT-LC50SOC	MM LC/UPC 900µm (50/125) OM2	\$35.70/ 6pk.
FIT-LC62SOC	MM LC/UPC 900µm (62.5/125) OM1	35.70/ 6pk.
FIT-LCAPCSOC	SM LC/APC 900µm	47.70/ 6pk.
FIT-LCOM3SOC	MM LC/UPC 900µm (50/125) (OM3, Laser Optimized)	35.70/ 6pk.
FIT-LCUPCSOC	SM LC/UPC 900µm	41.70/ 6pk.
FIT-SC50SOC	MM SC/UPC 900µm (50/125) OM2	35.70/ 6pk.
FIT-SC62SOC	MM SC/UPC 900µm (62.5/125) OM1	35.70/ 6pk.
FIT-SCAPCSOC	SM SC/APC 900µm	47.70/ 6pk.
FIT-SCOM3SOC	MM SC/UPC 900µm (50/125) (OM3, Laser Optimized)	35.70/ 6pk.
FIT-SCUPCSOC	SM SC/UPC 900µm	41.70/ 6pk.
SSCS-P1-EVA	SC/UPC SOC 900µm (9mm cleave - type 2)	11.05 ea.
SSCS-PN1-EVA	SC/APC SOC 900µm (9mm cleave - type 2)	11.35 ea.
SLCS-P1VA	SC/UPC SOC 900µm Silicon Boot (9mm cleave - type 2)	19.32 ea.
SLCS-PN1VA	SC/APC SOC 900µm Silicon Boot (9mm cleave - type 2)	19.80 ea.

2.0mm

PART #	DESCRIPTION	PRICE
SSCS-P2	SM SC/UPC for 2.0mm jacket cable	\$20.33
SSCS-PN2	SM SC/APC for 2.0mm jacket cable	21.00
SAPS-386	SM FC/APC for 2.0mm jacketed cable	19.80
SAPS-356	SM FC/UPC for 2.0mm jacketed cable	19.35

3.0mm

PART #	DESCRIPTION	PRICE
SSCS-P3	SM SC/UPC for 3.0mm jacket cable	\$20.33
SSCS-PN3	SM SC/APC for 3.0mm jacket cable	21.00
SAPS-387	SM FC/APC for 3.0mm jacketed cable	19.80
SAPS-357	SM FC/UPC for 3.0mm jacketed cable	19.35

NOTE: Use Fitel Splicers with Fiber Holders for FuseConnect and Installation kit is recommended for best performance



FEATURES

- Simple, Fast, and Consistent Field Termination
- Applicable for Interconnection Needing High Reliability
- Available In FC, SC or PC, APC Types
- Complies with Telcordia GR-326-CORE



F1-MC125



LOCK JAW

These mechanical splices hold fiber with a self-gripping clamshell design. These unique splices also allow for the optional use of cyanoacrylate adhesive (e.g. Super Glue) to achieve a superior pull strength of 1.5 lbs. The splices fit into any mechanical splice style splice tray, accommodate 125µm clad fiber (Singlemode or Multimode) and have a typical loss of .2dB. The splices are also available in our new FIS Mechanical Splice Kit that includes (6) FIS Mechanical Splices, Jacket/Buffer Stripper, Field Cleaver, Adhesive, Optic Prep Wipes and Instructions.

Pull strength 1.5lbs with adhesive.

PART #	DESCRIPTION	PRICE
F1-MC125	Splice for 125µm Clad Fiber, SM or MM	\$2.95
F1-MC125SK	Splice Kit - (6) splices, cleaver, adhesive, cleaner and strip tool	139.00



FIS-1140-6



LBSHLDR

ELASTOMERIC LAB SPLICE

The improved FIS Elastomeric Lab Splice is ideal for making temporary fiber connections and can be reused hundreds of times. To use splice, for instrument testing, simply insert a cleaved pigtail from OTDR or Power Meter and the cleaved unconnectorized fiber to be tested. Excellent for both Multimode and Singlemode fiber, the splice accepts fiber cladding diameters of 125µm to 140µm. The Lab Splices are supplied in blister packs of 6 (containing one of each color: pink, peach, yellow, green, blue and purple) or 12 (containing 2 of each color.)

PART #	DESCRIPTION	PRICE
FIS-1140-6	Pack of 6	\$9.95
FIS-1140-12	Pack of 12	16.95
LBSHLDR	Holder	165.00



F1-1002M

MECHANICAL SPLICE PROTECTION HOUSING

Available from FIS is a metallic protection sleeve that slips over mechanical splices for rugged protection. Install tube and supplied shrink tubes onto cable before installation and apply heat source to fix housing into position. Accepts 95-000-04, US126, US128, 2529, F1-MC125 splices offered above.

PART #	DESCRIPTION	PRICE
F1-1002M	Protection Housing	\$3.25



US-128

ULTRASPLICE

The ULTRASplice® is a high performance, easy to install tunable and reusable mechanical splice. One splice accepts any combination of buffer sizes from 250µm-900µm. Average loss is less than .2dB with a fiber retention of over 2 lbs. Installation is simple: Cleave and insert the fibers, while checking fiber location in the glass capillary, secure by twisting a locking nut. US-126 is IBM #33G8228, US-128 is IBM #33G8227. Meets and exceeds Telcordia specifications. (Also available in specialty fiber sizes).

PART #	DESCRIPTION	PRICE
US-126	Singlemode Universal ULTRASplice®	\$7.65
US-128	Multimode Universal ULTRASplice®	7.65



2529

3M FIBRLOK II

The Fibrlok has an insertion loss <.2dB with a fiber retention of >7.75 lbs. Known for low reflection characteristics of -35dB. Using V groove technology, it requires no epoxy. Uses Fibrlok assembly tool 2501. Splice completed in 30 seconds after preparing fiber ends. Thermal stability of -40°C to 80°C. Now Fibrloks fit 250-900µm buffer sizes.

Note: 2539 does not require 2501 tool for assembly.

PART #	DESCRIPTION	PRICE
2529	FIBRLOK II (250µm or 900µm)	\$7.95
2501	Assembly Tool (For use with 2529)	65.95
2539	Splice and Holder with Built-in Actuator (250µm or 900µm)	10.30

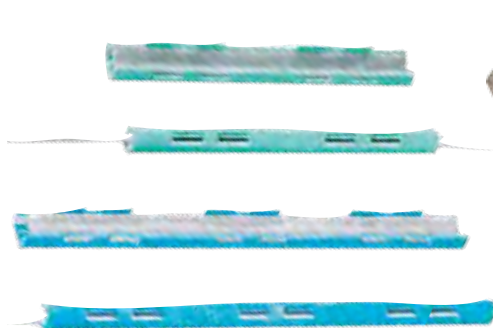


95-00-04

CAMSPlice

This easy to install one size fits all mechanical splice features "Cam" locking mechanism, which requires no adhesive. The CamSplice incorporates a unique alignment method that self centers fibers, providing accurate alignment. Splice losses of less than 0.5dB are consistently achievable. Fits 250/250µm, 250/900µm and 900/900µm.

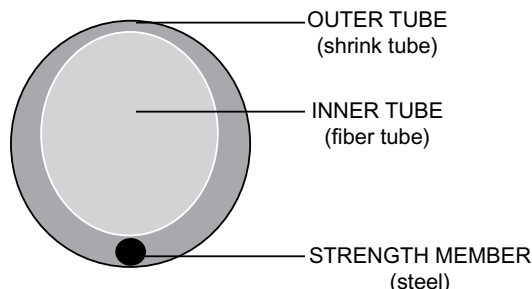
PART #	DESCRIPTION	PRICE
95-000-04	Camsplice	\$24.60
2104040-01	Assembly Fixture	278.95



ULTRASLEEVE® PROTECTION SLEEVE

Simply load the fused fiber and close the sleeve, no heat shrink curing, crimping or gluing. Ultrasleeve® features an acrylic foam tape, which seals the sleeve and protects from damage. The Ultrasleeve® splice protector can be closed by hand and is installed after splice is completed.

PART #	DESCRIPTION	PRICE
F1-FS40	40mm Splice Protection Sleeve	\$1.15
F1-FS60	60mm Splice Protection Sleeve	1.35



FUSION SPLICE PROTECTION SLEEVES

STANDARD SLEEVE – (3.0mm AFTER SHRINK)

This sleeve design represents the industry's most reliable, highest quality sleeve at an economical price. Standard lengths include 60mm and 40mm. Sleeves come standard with a clear outer tube for viewing the color of the fiber itself.

PART #	DESCRIPTION	1-10	10+
F1-1002C-50	60mm, 50 pk (Clear)	\$15.00	\$13.00
F1-100240C-50	40mm, 50 pk (Clear)	15.00	13.00
F1-1002RC-50	60mm, 50 pk (Red)	15.00	13.00

SLIM SLEEVE – (2.5mm AFTER SHRINK)

These clear protection sleeves use reduced diameter components for a smaller finished product. The smaller diameter allows users to fit more splices into existing splice trays.

PART #	DESCRIPTION	1-10	10+
F1-S25C-50	60mm, 50 pk (Clear)	\$15.00	\$13.00
F1-S2540C-50	40mm, 50 pk (Clear)	15.00	13.00

TAPERED SLEEVE – (3.0mm AFTER SHRINK)

This newly developed sleeve offers tapered ends designed to keep the metal strength member in proper position while in use. Available in 60mm and 40mm lengths.

PART #	DESCRIPTION	1-10	10+
F1-1002T-50	60mm, 50 pk (Clear)	\$15.00	\$13.00
F1-100240T-50	40mm, 50 pk (Clear)	15.00	13.00

MICRO SLEEVE (1.5mm After Shrink) & MINI SLEEVE (2.0mm After Shrink)

Designed to fit smaller areas for splice storage are the Mini and Micro Protection Sleeves. Micro Sleeves will only accommodate 250µm coated fibers. Mini Sleeves will accommodate 900µm or 250µm coated fibers.

PART #	DESCRIPTION	1-10	10+
MCRO140CFD-50	Micro 40mm, 50 pk (Clear)	\$15.00	\$13.00
MCR0125CFD-50	Micro 25mm, 50 pk (Clear)	15.00	13.00
MINI140CDS-50	Mini 40mm, 50 pk (Clear)	15.00	13.00
MINI125CDS-50	Mini 25mm, 50 pk (Clear)	15.00	13.00

RIBBON SPLICE PROTECTION SLEEVE

FIS offers two ribbon sleeve styles: Dual Strength Member and Single Strength Member. The Dual Strength Member design eliminates any undue stress on the ribbon, creating a perfectly flat exit for the ribbon. Available with a ceramic strength member.

PART #	DESCRIPTION	1-10	10+
F1-10112DP-50	Dual Member 40mm, 50pk (Clear)	\$25.00	\$22.50
F1-10112CP-50	Single Member 40mm, 50pk (Clear)	25.00	22.50

DIELECTRIC SPLICE PROTECTION SLEEVE – (3.0mm After Shrink)

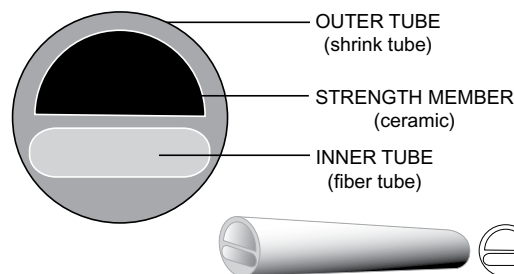
Our Dielectric sleeves are manufactured with a non-metallic strength member for the ultimate in corrosion and electrical resistance.

PART #	DESCRIPTION	1-10	10+
F1-DE60-50	60mm, Clear	\$21.95	\$18.95
F1-DE40-50	40mm, Clear	21.95	18.95

SPLICE SLEEVE SPATULA

The splice sleeve spatula is the perfect tool to aid in removing stubborn splice sleeves from splice protection chips. This tool provides adequate leverage and a wide flat surface to gently loosen any splice protection sleeve, without damage.

PART #	DESCRIPTION	PRICING
10033301	FIS Splice Sleeve Spatula	\$7.95



F1-DE40-50



10033301



F1-9777

FIS PROTECTION SLEEVE OVEN

FIS' new splice protection sleeve oven is the perfect companion to any fusion splicer by allowing for the external shrinking of fiber protection sleeves, which extends the life of a fusion splicer's battery. This allows for more splices in the field and improves the efficiency of the splice process. Low profile allows for easy placement of either 40mm or 60mm fusion splice sleeves while providing a stable base for a variety of applications.

PART #	DESCRIPTION	PRICE
F1-9777	Rechargeable Standard Splice Sleeve oven, universal 110/220VAC	\$325.00

FIS LOOSE BUFFER SPLICE CLIP

The Loose Buffer Splice Clip, a simple and easy way to get consistent splices when trying to fusion splice loose buffer fiber. This small clip prevents the fiber from pistoning while attempting a fusion splice.

PART #	DESCRIPTION	PRICE
SPLICECLIP	FIS Loose Buffer Splice Clip	\$9.95

SPLICECLIP



FIS FIBER OPTIC THERMAL STRIPPER - TS SERIES

This thermal stripper is a portable device for stripping coated optical fiber. This compact hand-held device enables the stripping process to be completed with just one hand.

PART #	DESCRIPTION	PRICE
F1-TS900	FIS Fiber Optic Thermal Stripper (Removes 900µm coating)	\$430.00
F1-TS250RF	FIS Fiber Optic Thermal Stripper (Removes 400µm/250µm coating on 12-ribbon fiber)	495.45
F1-TS250	FIS Fiber Optic Thermal Stripper (Removes 250µm coating)	430.00

F1-TS900



S010340



AFL HOT JACKET RIBBON STRIPPER

The HJS-02 Hot Jacket Ribbon Stripper provides superior ribbon stripping performance. An optional single-fiber adapter may be used to provide easy, single fiber capability for difficult to strip fibers. This stripper also accepts the holders of the FSM-40F and FSM-40PM factory/lab splicers. Fiber Holders not included.

Specifications: 1-12 fiber Ribbon, Stripping Length: 35mm max, Typical Heating Time: 3 sec. Normal Mode, Ribbon Thickness: 250µm - 400µm, Dimensions: 107mm x 40mm x 29mm, Weight: 0.43 lb.

PART #	DESCRIPTION	PRICE
S010340	AFL HJS-02 Hot Jacket Stripper (12 fibers max.)	\$647.50
S013828	FH-50-12 12 Fiber Holder (Pair)	240.00
S013820	FH-50-8 8 Fiber Holder (Pair)	240.00
S013812	FH-50-4 4 Fiber Holder (Pair)	240.00
S010428	SAD-01 AFL Single Fiber Adapter for HJS-02 (For use without Holders)	176.00
S014389	AC Power Supply	98.50
S014390	AC Power Cord	21.00

NOTE: For Stand Alone use AC Power Supply (S014389) and Power Cord (S014390) are required.



S218-R



FITEL HOT JACKET RIBBON STRIPPER

The Fitel Hot Ribbon Stripper applies controlled heat to fibers/ribbons during stripping to reduce stripping force required and prevent fiber damage. Heats up in 13 sec. Includes Batteries, AC/DC Adapter.

Fiber Holders not included.

PART #	DESCRIPTION	PRICE
S218-R	Fitel Hot Ribbon Stripper (fiber holders not included)	\$1,325.00
S218X-02	Power Cord (Connects Stripper to Fitel Splicer)	72.00
S218X-03	Single Fiber Adapter (For Use without Holders)	150.00
S709A-012	12-Ribbon Fiber Holders (Pair)	500.00

FIS BUCKET BUDDY

Technicians are faced with the challenge of securing the splicing machine or test equipment in a manner that facilitates a safe and easy fiber optic splice. The Bucket Buddy is unique in that its shape allows it to easily slide over the "lip" of the bucket on basically any aerial bucket truck; it will remain in place, attached securely to the bucket itself, to provide technicians a workstation attached to the bucket with which they can perform fiber splices, tests, or terminate drops.

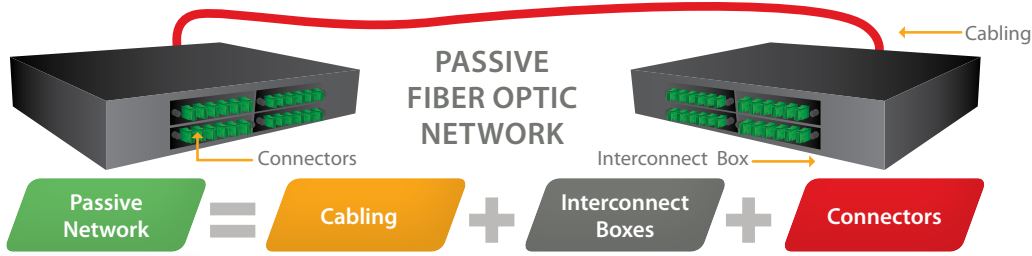
PART #	DESCRIPTION	PRICE
F1-AERIALBB	Aerial Fusion Splicer Workstation (Fits up to 3" Bucket Lip)	\$375.00



F1-AERIALBB

5 REASONS WHY

Contractors that source from FIS win contracts...



1 Cable

FIS cable is manufactured by our own subsidiary, which enables us to provide you with factory-direct prices. FIS has the cable you need in our giant \$10 million inventory, and we offer custom cable assemblies made to your specifications.

2 Interconnect Boxes

FIS manufactures a line of interconnect boxes that can be customized and loaded with adaptors and patchcords, which are also manufactured by FIS. This is your assurance your installation components are compatible and easy to install.



3 Connectors

Pre-assembled and cleaved, our patented Cheetah Splice-On Connectors install in less than three minutes. Manufactured by FIS, our top quality SOC's are half the cost of our competitors.

To view our selection of FIS SOC connectors scan the QR Code with your smart phone



4 Test Equipment

Our \$10 million inventory includes a complete range of test equipment, tools, cleaning supplies and more. Everything a contractor needs from one convenient source.



5 Contractors

Do your best work with FIS manufactured products. We support you technically. Also take advantage of our fiber optic training programs to sharpen your skills and stay ahead of the competition.



Realize your profit potential...Request a quote for the equipment you need for your passive fiber optic installations.

Call the FIS Solutionists at 1-800-5000(FIS) today!



RE-SPOOLING SERVICE

We cut and spool fiber or cable to your specified lengths



THREE-PIECE SPOOL

The three-piece spool features plastic flanges bolted to a kraft barrel, creating a durable, dimensionally true and splinter-free reel. Flange diameter is 18" while the barrel diameter 8.25", making it perfect for bulk cable or long assemblies.

PART #	DESCRIPTION	PRICE
F1-12SPOOL	Three Piece Spool - 1.75 Arbor Hole - 12"x 9" x 6"	\$11.95
F1-14SPOOL	Three Piece Spool - 1.75 Arbor Hole - 14"x 9" x 6"	13.95
F1-18SPOOL	Three Piece Spool - 1.75 Arbor Hole - 18"x 15.5" x 7.75"	15.95

CABLE BUYING GUIDELINES

1. Allowable cable length for shipping and billing is -0/+10%.
2. Simplex and duplex cut/spool fee \$10.00 each.
3. Specialty cut and hand coil fee \$5.00 each.
4. Multifiber and armored cable cut/spool fee \$25.00 each.
5. Cut charges do not apply when cable reels that are in stock are offered and accepted.
6. Minimum order quantities on non-stock cable will be required.



DID YOU KNOW?

10 GIG, CLEARCURVE® & BEYOND

TLC's Gigabit Cables are designed with Corning® InfiniCor® ClearCurve® Laser-Optimized™ Optical Fiber, engineered specifically for laser-based local area network protocols such as Gigabit Ethernet. Thanks to Corning's latest innovation, the new SMF-28® Ultra optical fiber is the first in the market to combine the benefit of industry-leading attenuation and improved macrobend performance in one fiber. TLC will also customize materials and constructions to meet your individual requirements.

Fiber-to-the-Home and Desk (FTTx) applications have resulted in the creation of several new grades of multimode fiber. The use of Gigabit and 10 Gig fibers can help future proof your network. New Bend Insensitive fibers are also becoming very popular. These fibers can be bent down to very small diameters without affecting the optical signal. FTTx applications use bend insensitive fiber because of its ease and flexibility of installation.

What is OM1, OM2, OM3 and OM4 MULTIMODE CABLE?

FIBER TYPE	STANDARD DESIGNATION	JACKET COLOR (typical)	MAXIMUM ATTENUATION (dB/km)		TRANSMISSION DISTANCE FOR (in meters)		MINIMAL MODAL BANDWIDTH (MHz/km)	
			850nm	1300nm	1 Gb/s	10 Gb/s	OVERFILLED LAUNCH 850nm	OVERFILLED LAUNCH 1300nm
62.5/125	OM1	Orange	3.5	1.5	300	30	200	500
50/125	OM2	Orange	3.5	1.5	600	150	500	500
50/125	OM3	Aqua	3.5	1.5	1,000	300	1500	500
50/125	OM4	Aqua/Magenta	3.5	1.5	1,110	550	3500	500

Corning® ClearCurve®

ClearCurve® fibers are fully compliant with ITU-T G.652.D and G.657 standards. These fibers are designed to meet a wide array of applications including both inside and outside plant installations. Network designers, operators, and installers choose ClearCurve® fibers for their superior bending performance, backward compatibility with the G.652.D standard and their ability to minimize bend-loss throughout any installation. Use the chart, right, to aid in selecting the right ClearCurve® fiber for your application.

ClearCurve® Singlemode	Application	ITU-T	Radius	Corning Spec
ClearCurve® ZBL -Ultra low bend loss	<ul style="list-style-type: none"> • Virtually no bend-loss in most indoor applications • Very low in extreme (5mm) bend environments • Enables smaller components and flexible yet reliable networks 	Exceeds G.657.A3/B3	5mm	<0.10 dB/turn
			7.5mm	
Corning® SMF-28® Ultra Optical Fiber	<ul style="list-style-type: none"> • Improved performance vs. standard singlemode fiber • Fully backward compatible with the installed base of legacy single-mode fibers. • Enables a broader range of cable design options and deployment flexibility 	Exceeds G.657.A1	10mm	<0.50 dB/turn



Made in the USA

By joining our Cable Assembly Partners you will be able to take advantage of incredible Cable and Polish Film Price Savings.



CORNING® BARE FIBER (245µm)

For high-data-rate, long haul terrestrial, regional and metropolitan ring networks or local access and premise applications. Corning® offers fibers that are designed for greater capacity and flexibility. **Respooling capabilities are available. There is a respooling charge of 5¢ per meter for lengths over 2,000 meters. Any length under 2,000 meters will incur a minimum spooling charge of \$10.00.**

PART #	DESCRIPTION	PRICE
SMF-28e+®	Corning® SMF-28e+® fiber OS2 with NexCor Technology 9/125µm (G.652)	8¢ /Mtr.
SMF-28® Ultra	Corning® SMF-28® Ultra Optical Fiber (G.675.A1) NEW	8¢ /Mtr.
SMFLF	Corning® LEAF® fiber Non-Zero Dispersion 9/125µm (G.655)	11¢ /Mtr.
ClearCurve®ZBL	Corning® ClearCurve® SM ZBL (G.657A/B)	28¢ /Mtr.
InfiniCor® 300	Corning® InfiniCor® 300 fiber® OM1 fiber 62.5/125µm	13¢ /Mtr.
ClearCurve®OM2	Corning® ClearCurve® OM2 fiber 50/125µm	13¢ /Mtr.
ClearCurve®OM3	Corning® ClearCurve® OM3 fiber 50/125µm	20¢ /Mtr.
ClearCurve®OM4	Corning® ClearCurve® OM4 fiber 50/125µm	35¢ /Mtr.

CORNING® SPECIALTY PM PHOTONIC FIBERS

Corning® Specialty PM Photonic Fibers, designed with the best polarization maintaining properties in the world today, offer low attenuation and excellent birefringence for next generation network systems. The fibers are available in a wide range of standard operating wavelengths up to 1550nm, including 14XX optimized for Raman applications.

PART #	DESCRIPTION	PRICE
PM15-U25	Puremode™ PM 1550 with 250µm Dual Acrylate Coating (100KPSI)	\$8.75 /Mtr.
PM15-U40	Puremode™ PM 1550 with 400µm Dual Acrylate Coating (100KPSI)	8.75 /Mtr.
PM98-U25H	Puremode™ PM 980 with 250µm Dual Acrylate Coating (200KPSI)	8.75 /Mtr.

CORNING® SPECIALTY HI PHOTONIC FIBERS

Corning® Specialty HI Photonic Fibers offer world class durability and reliability. When used as component pigtails, this fiber allows for efficient fiber coupling within photonic products.

PART #	MAXIMUM ATTENUATION	CUTOFF WAVELENGTH	MODE-FIELD DIA.	PRICE
HI980-6	≤ 2.5dB/km @ 980nm	930 ± 50nm	4.2µm @ 980nm	\$2.50 /Mtr.
HI1060-6-H	2.1dB/km @ 980nm 1.5dB/km @ 1060nm	920 ± 50nm	5.9 ± 0.5µm @ 980nm 6.2 ± 0.5µm @ 1060nm 9.9 ± 0.5µm @ 1550nm	2.75 /Mtr.

TLC FLAT RIBBON - Bare 245µm

PART #	DESCRIPTION	PRICE
S09-RB012-C	12 Fiber Singlemode 9/125µm Bare 245µm - OS2	\$1.10 /Mtr.
M62-RB012-C	12 Fiber Multimode 62.5/125µm Bare 245µm - OM1	2.00 /Mtr.
M50-RB12-CG	12 Fiber Multimode 50/125µm ClearCurve® Bare 245µm - OM3	2.85 /Mtr.

TLC FLAT RIBBON CABLE

PART #	DESCRIPTION	PRICE
S09-RB012-CNRY	12 Fiber Singlemode 9/125µm Riser Yellow - OS2	\$1.20 /Mtr.
M62-RB12-C3NRO	12 Fiber Multimode 62.5/125µm Riser Jacketed Orange - OM1	2.35 /Mtr.
M62-RB12-C3NPO	12 Fiber Multimode 62.5/125µm Plenum Jacketed Orange - OM1	2.75 /Mtr.
M50-RB12-C2NRO	12 Fiber Multimode 50/125µm Riser Jacketed Orange - OM2	2.35 /Mtr.
M50-RB12-CGNRA	12 Fiber Multimode 50/125µm Corning® ClearCurve® OM3 Riser Jacket Aqua	3.25 /Mtr.
M50-RB12-CGNPA	12 Fiber Multimode 50/125µm Corning® ClearCurve® OM3 Plenum Jacket Aqua	3.50 /Mtr.

900µm TIGHT BUFFER SINGLEMODE AND MULTIMODE CABLE

PART #	DESCRIPTION	PRICE	PART #	DESCRIPTION	PRICE
S09-TB01-CZNPW	White SM 9/125µm	15¢ /Mtr.	M62-TB01-C3NPW	White MM 62/125µm	23¢ /Mtr.
S09-TB01-CZNPB	Aqua SM 9/125µm	15¢ /Mtr.	M62-TB01-C3NPO	Orange MM 62/125µm	23¢ /Mtr.
S09-TB01-CZNPY	Yellow SM 9/125µm	15¢ /Mtr.	M50-TB01-C2NPO	Orange MM 50/125µm	35¢ /Mtr.
M50-TB01-CGNPA	ClearCurve® MM OM3 Aqua	35¢ /Mtr.	M50-TB01-C4NPA	ClearCurve® MM OM4 Aqua	40¢ /Mtr.

FIBERCORE LTD. POLARIZATION MAINTAINING FIBER

Fibercore's HB series polarization maintaining fiber (80 and 125 micron) with the characteristic "bow tie" stress applying parts gives you the very best in performance and handling.

PART #	DESCRIPTION	OPERATING WAVELENGTH	PRICE
HB1250P	Polyimide Coated PM Fiber (145µm coating) 6.6/125µm	1300nm	\$15.50 /Mtr.
HB1250T	PM Fiber for Telecom Applications (400µm coating) 9/125µm	1310nm	12.50 /Mtr.

FIBERCORE LTD. SPECIALTY SINGLEMODE FIBER

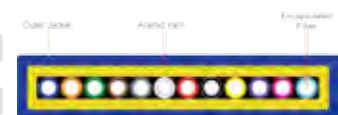
Fibercore Ltd's Specialty Singlemode Optical Fibers (80 and 125 micron) have been proven to perform in a wide range of challenging applications for wavelengths from 450nm to 1500nm.

PART #	DESCRIPTION	OPERATING WAVELENGTH	PRICE
SM600	Singlemode Fiber 4.3/125µm (245µm coating)	633/688nm	\$2.50 /Mtr.
SM800	Singlemode Fiber 4.2/80µm (175µm coating)	830nm	2.50 /Mtr.

TLC LARGE CORE FIBER CABLE

PART #	DESCRIPTION	PRICE
M10-SX01-LNRG	100/140µm 3.0mm Simplex (MM) Green	\$2.45 /Mtr.
M20-SX01-LNRB	200/230µm 3.0mm Simplex (MM) Blue	1.35 /Mtr.
M10-DX02-LNRG	100/140µm 3.0mm Duplex (MM) Green	4.15 /Mtr.
M20-DX02-LNRB	200/230µm 3.0mm Duplex (MM) Blue	2.20 /Mtr.

CORNING

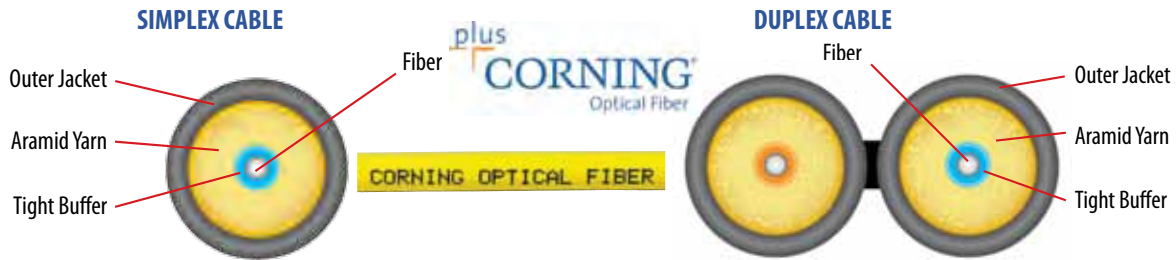


RIBBON CABLE



CABLE | SIMPLEX / DUPLEX - SINGLEMODE

FIS supplies the industry's broadest array of Fiber Optic Cable and Tubing for all Access and Premises Network Applications. These include Standard and Customized Simplex, Duplex, Tight Buffer, Distribution, Loose Tube Indoor/Outdoor and Ribbon Cable, as well as furcation tubing to fit the varied fanout applications.



Corning's new SMF-28® Ultra optical fiber is the first in the market to combine the benefit of industry-leading attenuation and improved macrobend performance in one fiber. This premium single-mode fiber is designed for long-haul, metro, access, and fiber-to-the-home (FTTH) applications, and is fully backward compatible with the installed base of legacy single-mode fibers.



Corning® SMF-28® Ultra Fiber

Compatibility Matters.

- MFD equivalence and 100% compatibility to G.652.D fiber allows for seamless integration into existing networks

Bend Matters.

The same improved bend performance of Corning® ClearCurve® XB fiber:

- 33% better bend than G.657. A 1 standard
- Capacity robustness: NGPON, WDM PON

Simplicity Matters.

- One fiber everywhere to minimize inventory management complexity

Loss Matters.

The same industry leading low-loss of Corning® SMF-28e+® LL fiber:

- Capacity robustness: 100G, 400G, Next Gen PON
- Low-cost capacity: less equipment, longer reach
- Enhanced Fixed-Mobile broadband coverage
- Repair resilience

**Four huge benefits.
One amazing fiber.
Ultra has arrived.**

CORNING

9/125µm - OS2 SINGLEMODE Corning® SMF-28® Ultra fiber

SIMPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
3.0mm				
S09-SX01-CZNR	Riser Yellow	900µm	TLC	23¢ /Mtr.
S09-SX01-CZNR	Riser Red	900µm	TLC	23¢ /Mtr.
S09-SX01-CZNPY	Plenum Yellow	900µm	TLC	25¢ /Mtr.
1E31-311-31	Riser Yellow	900µm	CCS	40¢ /Mtr.
S09-SX01-CZNRB	Riser Blue	900µm	TLC	25¢ /Mtr.
2.0mm				
S09-SX01-CZNR20	Riser Yellow	900µm	TLC	23¢ /Mtr.
S09-SX01-CZNP20	Plenum Yellow	900µm	TLC	25¢ /Mtr.
S09-SX01-CZNRB20	Riser Blue	900µm	TLC	25¢ /Mtr.
1.6mm				
S09-SX01-CZNR16	Riser Yellow	650µm	TLC	23¢ /Mtr.
S09-SX01-CZNP16	Plenum Yellow	650µm	TLC	25¢ /Mtr.
S09-SX01-CZNRB16	Riser Blue	650µm	TLC	25¢ /Mtr.
1.2mm				
S09-SX01-CZNP12	Plenum Yellow		TLC	25¢ /Mtr.

DUPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
3.0mm				
S09-DX02-CZNR	Riser Yellow	900µm	TLC	33¢ /Mtr.
S09-DX02-CZNR	Riser Red	900µm	TLC	33¢ /Mtr.
S09-DX02-CZNPY	Plenum Yellow	900µm	TLC	40¢ /Mtr.
2E51-311-31	Riser Yellow	900µm	CCS	65¢ /Mtr.
S09-DX02-CZNRB	Riser Blue	900µm	TLC	35¢ /Mtr.
2.0mm				
S09-DX02-CZNR20	Riser Yellow	900µm	TLC	33¢ /Mtr.
S09-DX02-CZNP20	Plenum Yellow	900µm	TLC	40¢ /Mtr.
S09-DX02-CZNRB20	Riser Blue	900µm	TLC	35¢ /Mtr.
1.6mm				
S09-DX02-CZNR16	Riser Yellow	650µm	TLC	33¢ /Mtr.
S09-DX02-CZNP16	Plenum Yellow	650µm	TLC	40¢ /Mtr.
S09-DX02-CZNRB16	Riser Blue	650µm	TLC	35¢ /Mtr.

9/125µm - SINGLEMODE ULTRA LOW BEND OPTIMIZED Corning® ClearCurve® ZBL fiber (5mm Radius) G657.B3

SIMPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
3.0mm				
S09-SX01-CCNR	Riser Blue	900µm	TLC	35¢ /Mtr.
S09-SX01-CCNR	Riser Yellow	900µm	TLC	35¢ /Mtr.
1.6mm				
S09-SX01-CCNRB16	Riser Blue	650µm	TLC	35¢ /Mtr.
S09-SX01-CCNR16	Riser Yellow	650µm	TLC	35¢ /Mtr.

DUPLEX CABLE

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
3.0mm				
S09-DX02-CCNR	Riser Blue	900µm	TLC	65¢ /Mtr.
S09-DX02-CCNR	Riser Yellow	900µm	TLC	65¢ /Mtr.
1.6mm				
S09-DX02-CCNRB16	Riser Blue	650µm	TLC	65¢ /Mtr.
S09-DX02-CCNR16	Riser Yellow	650µm	TLC	65¢ /Mtr.

62.5/125µm - OM1 MULTIMODE

InfiniCor® 300 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M62-SX01-C3NRO	Riser Orange	900µm	TLC	25¢ /Mtr.
M62-SX01-C3NPO	Plenum Orange	900µm	TLC	29¢ /Mtr.
1K31-311-41	Riser Orange	900µm	CCS	70¢ /Mtr.

2.0mm

M62-SX01-C3NRO20	Riser Orange	900µm	TLC	25¢ /Mtr.
M62-SX01-C3NPO20	Plenum Orange	900µm	TLC	29¢ /Mtr.

1.6mm

M62-SX01-C3NRO16	Riser Orange	650µm	TLC	25¢ /Mtr.
M62-SX01-C3NPO16	Plenum Orange	650µm	TLC	29¢ /Mtr.

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M62-DX02-C3NRO	Riser Orange	900µm	TLC	45¢ /Mtr.
M62-DX02-C3NPO	Plenum Orange	900µm	TLC	55¢ /Mtr.
2K51-311-41	Riser Orange	900µm	CCS	\$1.10 /Mtr.

2.0mm

M62-DX02-C3NRO20	Riser Orange	900µm	TLC	45¢ /Mtr.
M62-DX02-C3NPO20	Plenum Orange	900µm	TLC	55¢ /Mtr.

1.6mm

M62-DX02-C3NRO16	Riser Orange	650µm	TLC	45¢ /Mtr.
M62-DX02-C3NPO16	Plenum Orange	650µm	TLC	55¢ /Mtr.

50/125µm - OM2 MULTIMODE

Corning® ClearCurve® OM2 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-SX01-C2NRO	Riser Orange	900µm	TLC	25¢ /Mtr.
M50-SX01-C2NPO	Plenum Orange	900µm	TLC	29¢ /Mtr.
001T31-311-3124	Plenum Orange	900µm	CCS	60¢ /Mtr.

2.0mm

M50-SX01-C2NRO20	Riser Orange	900µm	TLC	25¢ /Mtr.
M50-SX01-C2NPO20	Plenum Orange	900µm	TLC	29¢ /Mtr.

1.6mm

M50-SX01-C2NRO16	Riser Orange	650µm	TLC	25¢ /Mtr.
M50-SX01-C2NPO16	Plenum Orange	650µm	TLC	29¢ /Mtr.

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-DX02-C2NRO	Riser Orange	900µm	TLC	45¢ /Mtr.
M50-DX02-C2NPO	Plenum Orange	900µm	TLC	55¢ /Mtr.
002T51-311-3124	Plenum Orange	900µm	CCS	78¢ /Mtr.

2.0mm

M50-DX02-C2NRO20	Riser Orange	900µm	TLC	45¢ /Mtr.
M50-DX02-C2NPO20	Plenum Orange	900µm	TLC	55¢ /Mtr.

1.6mm

M50-DX02-C2NRO16	Riser Orange	650µm	TLC	45¢ /Mtr.
M50-DX02-C2NPO16	Plenum Orange	650µm	TLC	55¢ /Mtr.

50/125µm - OM3 MULTIMODE-10 Gig

Corning® ClearCurve® OM3 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-SX01-CGNRA	Riser Aqua	900µm	TLC	35¢ /Mtr.
M50-SX01-CGNPA	Plenum Aqua	900µm	TLC	40¢ /Mtr.

2.0mm

M50-SX01-CGNRA20	Riser Aqua	900µm	TLC	35¢ /Mtr.
M50-SX01-CGNPA20	Plenum Aqua	900µm	TLC	40¢ /Mtr.

1.6mm

M50-SX01-CGNRA16	Riser Aqua	650µm	TLC	35¢ /Mtr.
M50-SX01-CGNPA16	Plenum Aqua	650µm	TLC	40¢ /Mtr.

DUPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-DX02-CGNRA	Riser Aqua	900µm	TLC	60¢ /Mtr.
M50-DX02-CGNPA	Plenum Aqua	900µm	TLC	68¢ /Mtr.

2.0mm

M50-DX02-CGNRA20	Riser Aqua	900µm	TLC	60¢ /Mtr.
M50-DX02-CGNPA20	Plenum Aqua	900µm	TLC	68¢ /Mtr.

1.6mm

M50-DX02-CGNRA16	Riser Aqua	650µm	TLC	60¢ /Mtr.
M50-DX02-CGNPA16	Plenum Aqua	650µm	TLC	68¢ /Mtr.

50/125µm - OM4 MULTIMODE-10 Gig

Corning® ClearCurve® OM4 fiber

SIMPLEX CABLE

3.0mm

PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-SX01-C4NRA	Riser Aqua	900µm	TLC	40¢ /Mtr.
M50-SX01-C4NPA	Plenum Aqua	900µm	TLC	50¢ /Mtr.
M50-SX01-C4NRM	Riser Magenta	900µm	TLC	40¢ /Mtr.
M50-SX01-C4NPM	Plenum Magenta	900µm	TLC	50¢ /Mtr.

2.0mm

M50-SX01-C4NRA20	Riser Aqua	900µm	TLC	40¢ /Mtr.
M50-SX01-C4NPA20	Plenum Aqua	900µm	TLC	50¢ /Mtr.
M50-SX01-C4NRM20	Riser Magenta	900µm	TLC	40¢ /Mtr.
M50-SX01-C4NPM20	Plenum Magenta	900µm	TLC	50¢ /Mtr.

1.6mm

M50-SX01-C4NRA16	Riser Aqua	650µm	TLC	40¢ /Mtr.
M50-SX01-C4NPA16	Plenum Aqua	650µm	TLC	50¢ /Mtr.
M50-SX01-C4NRM16	Riser Magenta	650µm	TLC	40¢ /Mtr.
M50-SX01-C4NPM16	Plenum Magenta	650µm	TLC	50¢ /Mtr.

DUPLEX CABLE

3.0mm

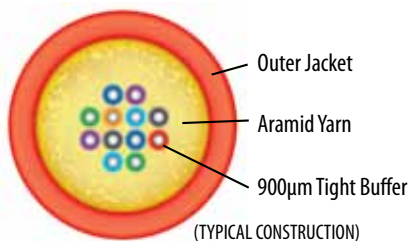
PART #	DESCRIPTION	BUFFER SIZE	MFG	PRICE
M50-DX02-C4NRA	Riser Aqua	900µm	TLC	75¢ /Mtr.
M50-DX02-C4NPA	Plenum Aqua	900µm	TLC	80¢ /Mtr.
M50-DX02-C4NRM	Riser Magenta	900µm	TLC	75¢ /Mtr.
M50-DX02-C4NPM	Plenum Magenta	900µm	TLC	80¢ /Mtr.

2.0mm

M50-DX02-C4NRA20	Riser Aqua	900µm	TLC	75¢ /Mtr.
M50-DX02-C4NPA20	Plenum Aqua	900µm	TLC	80¢ /Mtr.
M50-DX02-C4NRM20	Riser Magenta	900µm	TLC	75¢ /Mtr.
M50-DX02-C4NPM20	Plenum Magenta	900µm	TLC	80¢ /Mtr.

1.6mm

M50-DX02-C4NRA16	Riser Aqua	650µm	TLC	75¢ /Mtr.
M50-DX02-C4NPA16	Plenum Aqua	650µm	TLC	80¢ /Mtr.
M50-DX02-C4NRM16	Riser Magenta	650µm	TLC	75¢ /Mtr.
M50-DX02-C4NPM16	Plenum Magenta	650µm	TLC	80¢ /Mtr.



DISTRIBUTION CABLE

Distribution Cable (compact building cable) packages individual 900µm buffered fiber, reducing size and cost when compared to breakout cable. The connectors may be installed directly on the 900µm buffered fiber at the breakout box location. The space saving (OFNR) rated cable may be installed wherever breakout cable is used.

ALUMINUM INTERLOCKING ARMORED DISTRIBUTION CABLE

TLC Interlocking Armored Cables are standard cables inside a spirally wrapped interlocking armor for enhanced crush resistance and ruggedness. Available in riser and plenum constructions, interlocking armor can be used for general inside plant applications in place of a conduit.



Armored Distribution Cable-OM3

9/125µm - OS2 SINGLEMODE Corning® SMF-28® Ultra fiber



PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
S09-DI06-CZNR	6	Riser Yellow	TLC	75¢ /Mtr.	S09-DI24-CZNPY	24	Plenum Yellow	TLC	\$3.55 /Mtr.
S09-DI12-CZNR	12	Riser Yellow	TLC	\$1.40/Mtr.	M9W606	48	Riser Yellow	Mohawk	5.20 /Mtr.
S09-DI12-CZNPY	12	Plenum Yellow	TLC	1.55 /Mtr.	048R-816-113124	48	Riser Yellow	CCS	11.25/Mtr.
012R-813-313124	12	Riser Yellow	CCS	2.35 /Mtr.	M9W609	72	Riser Yellow	Mohawk	7.70 /Mtr.
S09-DI06-CZNPB	6	Plenum Blue	TLC	90¢ /Mtr.	S09-DI12-CZNPB	12	Plenum Blue	TLC	\$1.65 /Mtr.



TLC ALUMINUM INTERLOCKING ARMORED DISTRIBUTION CABLE

S09-DI06-CZNPY-AIA	6	Plenum Yellow 9/125µm Armored - OS2	\$2.85 /Mtr.	M62-DI12-C3NPO-AIA	12	Plenum Orange 62.5/125µm Armored - OM1	\$4.25 /Mtr.
S09-DI12-CZNPY-AIA	12	Plenum Yellow 9/125µm Armored - OS2	3.25 /Mtr.	M50-DI06-CGNPA-AIA	6	Plenum Aqua 10 GIG Armored - OM3	3.60 /Mtr.
S09-DI24-CZNPY-AIA	24	Plenum Yellow 9/125µm Armored - OS2	6.55 /Mtr.	M50-DI12-CGNPA-AIA	12	Plenum Aqua 10 GIG Armored - OM3	4.95 /Mtr.
S09-DI48-CZNPY-AIA	48	Plenum Yellow 9/125µm Armored - OS2	13.75 /Mtr.	M50-DI24-CGNPA-AIA	24	Plenum Aqua 10 GIG Armored - OM3	8.50 /Mtr.
M62-DI06-C3NPO-AIA	6	Plenum Orange 62.5/125µm Armored - OM1	3.50 /Mtr.	M50-DI48-CGNPA-AIA	48	Plenum Aqua 10 GIG Armored - OM3	16.15 /Mtr.

62.5/125µm OM1 MULTIMODE

InfiniCor® 300 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M62-DI04-C3NRO	4	Riser Orange	TLC	\$1.05 /Mtr.	M62-DI12-C3NRO	12	Riser Orange	TLC	\$2.35 /Mtr.
M62-DI04-C3NPO	4	Plenum Orange	TLC	1.10/Mtr.	M62-DI12-C3NPO	12	Plenum Orange	TLC	2.65 /Mtr.
M62-DI06-C3NRO	6	Riser Orange	TLC	1.20 /Mtr.	M62-DI24-C3NRO	24	Riser Orange	TLC	4.75 /Mtr.
M62-DI06-C3NPO	6	Plenum Orange	TLC	1.35 /Mtr.	M62-DI24-C3NPO	24	Plenum Orange	TLC	5.40 /Mtr.

50/125µm - OM2 MULTIMODE

Corning® ClearCurve® OM2 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M50-DI04-C2NRO	4	Riser Orange	TLC	\$1.05 /Mtr.	M50-DI12-C2NRO	12	Riser Orange	TLC	\$2.35 /Mtr.
M50-DI04-C2NPO	4	Plenum Orange	TLC	1.10/Mtr.	M50-DI12-C2NPO	12	Plenum Orange	TLC	2.65 /Mtr.
M50-DI06-C2NRO	6	Riser Orange	TLC	1.20 /Mtr.	M50-DI24-C2NRO	24	Riser Orange	TLC	4.75 /Mtr.
M50-DI06-C2NPO	6	Plenum Orange	TLC	1.35 /Mtr.	M50-DI24-C2NPO	24	Plenum Orange	TLC	5.40 /Mtr.

50/125µm - OM3 MULTIMODE - 10 Gig

Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M50-DI02-CGNRA	2	Riser Aqua	TLC	69¢ /Mtr.	M50-DI06-CGNPA	6	Plenum Aqua	TLC	\$1.75 /Mtr.
M50-DI02-CGNPA	2	Plenum Aqua	TLC	85¢ /Mtr.	M50-DI12-CGNRA	12	Riser Aqua	TLC	3.15 /Mtr.
M50-DI04-CGNRA	4	Riser Aqua	TLC	\$1.30 /Mtr.	M50-DI12-CGNPA	12	Plenum Aqua	TLC	3.45 /Mtr.
M50-DI04-CGNPA	4	Plenum Aqua	TLC	1.40 /Mtr.	M50-DI24-CGNRA	24	Riser Aqua	TLC	6.25 /Mtr.
M50-DI06-CGNRA	6	Riser Aqua	TLC	1.55 /Mtr.	M50-DI24-CGNPA	24	Plenum Aqua	TLC	6.90 /Mtr.

50/125µm - OM4 MULTIMODE - 10 Gig

Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE	PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
M50-DI06-C4NRA	6	Riser Aqua	TLC	\$2.30 /Mtr.	M50-DI12-C4NRA	12	Riser Aqua	TLC	\$4.45/Mtr.
M50-DI06-C4NPA	6	Plenum Aqua	TLC	2.40 /Mtr.	M50-DI12-C4NPA	12	Plenum Aqua	TLC	4.60/Mtr.
M50-DI06-C4NRM	6	Riser Magneta	TLC	2.30 /Mtr.	M50-DI12-C4NRM	12	Riser Magneta	TLC	4.45/Mtr.
M50-DI06-C4NPM	6	Plenum Magneta	TLC	2.40 /Mtr.	M50-DI12-C4NPM	12	Plenum Magneta	TLC	4.60/Mtr.



TLC MICRO-DISTRIBUTION INDOOR CABLE

FIS is proud to offer their line of Micro-Distribution Cables for the Data Center market. These cables are offered in Riser, Plenum or LSZH. They are available in OS2 Singlemode, OM1 62.5µm Multimode, OM2 50µm Multimode or OM3 50µm Multimode and OM4 50µm Multimode. Numbered sub units available in 6 and 12 fiber counts.



9/125µm - OS2 SINGLEMODE Corning® SMF-28® Ultra fiber

PART #	FIBER COUNT	DESCRIPTION	PRICE
S09-MD12-CZNR20	12	Riser Yellow	\$1.10 / Mtr.
S09-MD12-CZNPY20	12	Plenum Yellow	1.40 / Mtr.
*S09-MD24-CZNR2T20-Y	24	Riser Yellow	2.30 / Mtr.
*S09-MD24-CZNPY2T20-Y	24	Plenum Yellow	2.55 / Mtr.
*S09-MD48-CZNR4T20-Y	48	Riser Yellow	3.50 / Mtr.
*S09-MD48-CZNPY4T20-Y	48	Plenum Yellow	3.70 / Mtr.
*S09-MD72-CZNR6T20-Y	72	Riser Yellow	4.10 / Mtr.
*S09-MD72-CZNPY6T20-Y	72	Plenum Yellow	4.40 / Mtr.

*Indicates all buffers are colored Yellow

50/125µm - OM3 MULTIMODE Corning® ClearCurve® OM3 fiber

PART #	FIBER COUNT	DESCRIPTION	PRICE
M50-MD12-CGNRA20	12	Riser Aqua	\$2.45 / Mtr.
M50-MD12-CGNPA20	12	Plenum Aqua	2.55 / Mtr.
*M50-MD24-CGNRA2TA20-A	24	Riser Aqua	5.20 / Mtr.
*M50-MD24-CGNPA2TA20-A	24	Plenum Aqua	5.75 / Mtr.
*M50-MD48-CGNRA4TA20-A	48	Riser Aqua	10.35 / Mtr.
*M50-MD48-CGNPA4TA20-A	48	Plenum Aqua	11.00 / Mtr.
*M50-MD72-CGNRA6TA20-A	72	Riser Aqua	15.00 / Mtr.
*M50-MD72-CGNPA6TA20-A	72	Plenum Aqua	15.70 / Mtr.

50/125µm - OM4 MULTIMODE Corning® ClearCurve® OM4 fiber

PART #	FIBER COUNT	DESCRIPTION	PRICE
M50-MD12-C4NRA20	12	Riser Aqua	\$3.55 / Mtr.
M50-MD12-C4NPA20	12	Aqua Plenum	3.70 / Mtr.
*M50-MD24-C4NRA2TA20-A	24	Riser Aqua	7.40 / Mtr.
*M50-MD24-C4NPA2TA20-A	24	Aqua Plenum	8.00 / Mtr.
*M50-MD48-C4NRA4TA20-A	48	Riser Aqua	15.40 / Mtr.
*M50-MD48-C4NPA4TA20-A	48	Aqua Plenum	15.70 / Mtr.

*Indicates all buffers are colored Aqua



ARMORED MICRO DISTRIBUTION CABLE (3mm Subunits)

PART #	FIBER COUNT	DESCRIPTION	PRICE
M50-MD12-CGNPA-AIA	12	Plenum Aqua Armored - OM3	\$4.55 / Mtr.
M50-MD24-CGNPA2TA-AIA	24	Plenum Aqua Armored - OM3	8.20 / Mtr.
M50-MD48-CGNPA4TA-AIA	48	Plenum Aqua Armored - OM3	13.25 / Mtr.
M50-MD12-C4NPA-AIA	12	Plenum Aqua Armored - OM4	5.85 / Mtr.
M50-MD24-C4NPA2TA-AIA	24	Plenum Aqua Armored - OM4	10.70 / Mtr.
M50-MD48-C4NPA4TA-AIA	48	Plenum Aqua Armored - OM4	18.50 / Mtr.



INDOOR/OUTDOOR CABLE

FIS offers indoor/outdoor cable in a distribution construction in both Riser and Plenum. These cables are flexible, easy to handle and simple to install. Since they do not use gel, the connectors can be terminated directly onto the 900µm fiber without breakout kits. This provides an easy and overall less expensive installation.

Note: When used in a burial application this cable must be placed in a conduit or innerduct and is not recommended for lashing applications.

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
SINGLEMODE 9/125µm Corning® SMF-28® Ultra fiber				
S09-I006-CZNRBL	6	Riser SM 9/125µm - OS2	TLC	80¢ /Mtr.
S09-I012-CZNRBL	12	Riser SM 9/125µm - OS2	TLC	\$1.60 /Mtr.
S09-I024-CZNRBL	24	Riser SM 9/125µm - OS2	TLC	3.65 /Mtr.
S09-I006-CZNPBL	6	Plenum SM 9/125µm - OS2	TLC	90¢ /Mtr.
S09-I012-CZNPBL	12	Plenum SM 9/125µm - OS2	TLC	1.75 /Mtr.

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
MULTIMODE 50/125µm Corning® ClearCurve® OM3 fiber				
M50-I002-CGNRBL	2	Riser 50/125 10 Gig MM - OM3	TLC	80¢ /Mtr.
M50-I004-CGNRBL	4	Riser 50/125 10 Gig MM - OM3	TLC	\$1.35 /Mtr.
M50-I006-CGNRBL	6	Riser 50/125 10 Gig MM - OM3	TLC	1.60 /Mtr.
M50-I012-CGNRBL	12	Riser 50/125 10 Gig MM - OM3	TLC	3.00 /Mtr.
M50-I024-CGNRBL	24	Riser 50/125 10 Gig MM - OM3	TLC	6.50 /Mtr.
M50-I006-CGNPBL	6	Plenum 50/125 10 Gig MM - OM3	TLC	1.80 /Mtr.
M50-I012-CGNPBL	12	Plenum 50/125 10 Gig MM - OM3	TLC	3.55 /Mtr.
M50-I024-CGNPBL	24	Plenum 50/125 10 Gig MM - OM3	TLC	6.95 /Mtr.

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
MULTIMODE 50/125µm Corning® ClearCurve® OM4 fiber				
M50-I006-C4NRBL	6	Riser 50/125 10 Gig MM - OM4	TLC	\$2.40 /Mtr.
M50-I006-C4NPBL	6	Plenum 50/125 10 Gig MM - OM4	TLC	2.50 /Mtr.
M50-I012-C4NRBL	12	Riser 50/125 10 Gig MM - OM4	TLC	4.65 /Mtr.
M50-I012-C4NPBL	12	Plenum 50/125 10 Gig MM - OM4	TLC	4.85 /Mtr.

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
MULTIMODE 62.5/125µm InfiniCor® 300 fiber				
M62-I002-C3NRBL	2	Riser MM 62.5/125µm - OM1	TLC	70¢ /Mtr.
M62-I004-C3NRBL	4	Riser MM 62.5/125µm - OM1	TLC	\$1.10 /Mtr.
M62-I006-C3NRBL	6	Riser MM 62.5/125µm - OM1	TLC	1.25 /Mtr.
M62-I012-C3NRBL	12	Riser MM 62.5/125µm - OM1	TLC	2.40 /Mtr.
M62-I024-C3NRBL	24	Riser MM 62.5/125µm - OM1	TLC	5.50 /Mtr.
M62-I002-C3NPBL	2	Plenum MM 62.5/125µm - OM1	TLC	80¢ /Mtr.
M62-I004-C3NPBL	4	Plenum MM 62.5/125µm - OM1	TLC	\$1.30 /Mtr.
M62-I006-C3NPBL	6	Plenum MM 62.5/125µm - OM1	TLC	1.60 /Mtr.
M62-I012-C3NPBL	12	Plenum MM 62.5/125µm - OM1	TLC	3.00 /Mtr.
M62-I024-C3NPBL	24	Plenum MM 62.5/125µm - OM1	TLC	6.00 /Mtr.
MULTIMODE 50/125µm Corning® ClearCurve® OM2 fiber				
M50-I002-C2NRBL	2	Riser 50/125µm MM - OM2	TLC	70¢ /Mtr.
M50-I006-C2NRBL	6	Riser 50/125µm MM - OM2	TLC	\$1.25 /Mtr.
M50-I012-C2NRBL	12	Riser 50/125µm MM - OM2	TLC	2.40 /Mtr.

PART #	FIBER COUNT	DESCRIPTION	MFG	PRICE
INTERLOCKING INDOOR/OUTDOOR ARMORED CABLE				
S09-I006-CZNPBL-AIA	6	Plenum SM 9/125µm Armored - OS2	TLC	\$2.98 / Mtr.
S09-I012-CZNPBL-AIA	12	Plenum SM 9/125µm Armored - OS2	TLC	3.15 / Mtr.
M62-I006-C3NPBL-AIA	6	Plenum MM 62.5/125µm Armored - OM1	TLC	3.45 / Mtr.
M62-I012-C3NPBL-AIA	12	Plenum MM 62.5/125µm Armored - OM1	TLC	4.35 / Mtr.
M50-I006-CGNPBL-AIA	6	Plenum MM 50/125µm 10 Gig Armored - OM3	TLC	3.95 / Mtr.
M50-I012-CGNPBL-AIA	12	Plenum MM 50/125µm 10 Gig Armored - OM3	TLC	5.25 / Mtr.
M50-I024-CGNPBL-AIA	24	Plenum MM 50/125µm 10 Gig Armored - OM3	TLC	8.65 / Mtr.



TLC ALUMINUM INTERLOCKING ARMORED DISTRIBUTION CABLE

TLC Tight Buffered Aluminum Interlocking Armored cable consists of PVC overall jacket, PVC inner jacket with 2 to 24 tight buffered fibers surrounded by yarn acting as a strength member. The core is protected by a spirally wrapped aluminum strip that offers easy installation and high crush resistance. These cables are available in OFCP rated constructions.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
S09-DI06-CZNPY-AIA	6	SM 9/125µm - Yellow Plenum - OS2	16mm	\$2.85 /Mtr.
S09-DI12-CZNPY-AIA	12	SM 9/125µm - Yellow Plenum - OS2	16mm	3.25 /Mtr.
S09-DI24-CZNPY-AIA	24	SM 9/125µm - Yellow Plenum - OS2	17.4mm	6.55 /Mtr.
S09-D148-CZNPY-AIA	48	SM 9/125µm - Yellow Plenum - OS2	23.50mm	13.75 /Mtr.
M62-DI06-C3NPO-AIA	6	MM 62.5/125µm - Orange Plenum - OM1	16mm	3.50 /Mtr.
M62-DI12-C3NPO-AIA	12	MM 62.5/125µm - Orange Plenum - OM1	17.4mm	4.25 /Mtr.
M50-DI06-CGNPA-AIA	6	MM 50/125µm Aqua Plenum - OM3	16mm	3.60 /Mtr.
M50-DI12-CGNPA-AIA	12	MM 50/125µm Aqua Plenum - OM3	16mm	4.95 /Mtr.
M50-DI24-CGNPA-AIA	24	MM 50/125µm Aqua Plenum - OM3	17.4mm	8.50 /Mtr.



AFL ARMORED TIGHT BUFFERED CIRCULAR PREMISE CABLE

AFL Armored Tight Buffered Circular Premise Cables incorporate 4 to 144 fiber count in a ETL listed, Flame Retardant Jacketed Aluminum. The Interlocking Armor provides the best balance of Ruggedness, Flexibility, and Low Weight. Not Recommended for Direct Burial.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
CP006-9441001-AIAP	6	SM 9/125µm Plenum - OS2	12.2mm	\$3.30 /Mtr.
CP012-9551001-AIAP	12	SM 9/125µm Plenum - OS2	13.5mm	3.65 /Mtr.
CP024-9841001-AIAP	24	SM 9/125µm Plenum - OS2	15.75mm	7.25 /Mtr.
CP006-6441001-AIAP	6	MM 62.5/125µm GIGA-Link 300 Plenum - OM1	12.2mm	3.70 /Mtr.
CP012-6551001-AIAP	12	MM 62.5/125µm GIGA-Link 300 Plenum - OM1	13.5mm	4.65 /Mtr.
CP006-L441C01-AIAP	6	MM 50µm Laser-Link 300 for Gigabit Plenum - OM3	12.2mm	3.98 /Mtr.
CP012-L551C01-AIAP	12	MM 50µm Laser-Link 300 for Gigabit Plenum - OM3	13.5mm	5.45 /Mtr.
CP024-L841C01-AIAP	24	MM 50µm Laser-Link 300 for Gigabit Plenum - OM3	16.5mm	9.50 /Mtr.



MOHAWK ARMORED CENTRAL LOOSE TUBE OSP CABLE

Mohawk Armored Central Tube OSP cable offers rodent protection and direct burial for outdoor applications. Cable features: surrounded by gel for moisture resistance, corrugated steel tape and a polyethylene jacket for weather and UV protection.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
M9W172	6	SM 9/125µm - OS2	13.5mm	\$1.45 /Mtr.
M9W175	12	SM 9/125µm - OS2	13.5mm	1.65 /Mtr.
M9B172	6	MM 62.5/125µm - OM1	13.5mm	2.10 /Mtr.
M9B175	12	MM 62.5/125µm - OM1	13.5mm	2.75 /Mtr.
M9C172	6	MM 50/125µm - OM3	13.5mm	2.95 /Mtr.
M9C175	12	MM 50/125µm - OM3	13.5mm	4.25 /Mtr.



MOHAWK CENTRAL LOOSE TUBE OSP CABLE

Mohawk Central Loose Tube OSP cable features the long-term, field-proven reliability of conventional polyethylene outdoor unitized construction surrounded by gel for moisture resistance. Recommended applications include building interconnections and data trunk, long haul networking and applications requiring good ozone, moisture and weather resistance. Other fiber counts and types available.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
M9W152	6	SM 9/125µm - OS2	8.26mm	\$1.05 /Mtr.
M9W155	12	SM 9/125µm - OS2	8.26mm	1.20 /Mtr.
M9B152	6	MM 62.5/125µm - OM1	8.26mm	1.70 /Mtr.
M9B155	12	MM 62.5/125µm - OM1	8.26mm	2.45 /Mtr.
M9C152	6	MM 50/125µm - OM3	8.26mm	2.55 /Mtr.
M9C155	12	MM 50/125µm - OM3	9.65mm	3.95 /Mtr.



TLC BREAKOUT CABLE

TLC Breakout cable consists of 2mm subunits with 900mm tight buffers. Combining strength, flexibility and no need for fan-out kits or tubing when terminating, these rugged cables are ideal for indoor and indoor/outdoor applications. TLC offers Breakout cables from 2-12 fiber constructions with Plenum and Riser ratings.

PART #	FIBER COUNT	DESCRIPTION	PRICE
S09-BK06CZNPY-20-Y	6	SM 9/125µm - OS2	\$2.85 /Mtr.
S09-BK12CZNPY-20-Y	12	SM 9/125µm - OS2	6.25 /Mtr.
M62-BK06C3NPO-20-0	6	MM 62.5/125µm - OM1	3.75 /Mtr.
M62-BK12C3NPO-20-0	12	MM 62.5/125µm - OM1	7.60 /Mtr.



AERIAL CABLE/SELF-SUPPORTING

Aerial cable provides ease of installation and reduces time and cost. Figure 8 cable can easily be separated between the fiber and the messenger. Temperature range -55°C to +85°C. Additional configurations available.

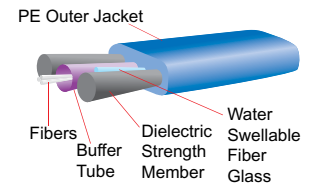
PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
AR04TB	4	MM 62.5/125µm - OM1	5.0mm	\$3.95 /Mtr.
AR06TB	6	MM 62.5/125µm - OM1	6.0mm	4.70 /Mtr.

CORNING® CABLE SYSTEMS DROP CABLES

SST-Drop™ Cables offer the ease of installation of standard ALTOS® cable in an easy-access stranded single-tube (SST) design. Intended for FTTH networks, bridging the space between distribution network and subscriber premise.

PART #	FIBER COUNT	DESCRIPTION	PRICE
001-EB4-14101A20	1	SM 9/125µm SST Drop™ Cable - OS2	65¢ /Mtr.
002-EB4-14101A20	2	SM 9/125µm SST Drop™ Cable - OS2	70¢ /Mtr.
004-EB4-14101A20	4	SM 9/125µm SST Drop™ Cable - OS2	90¢ /Mtr.

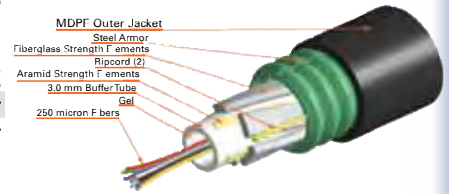
CORNING



COMMSCOPE OSP DROP CABLE

FIS carries CommScope armored outside plant cable. The cable is for buried, underground and aerial applications. It uses Arid-Core® water blocking technology that helps to protect fibers from moisture and reduces termination effort. The medium density polyethylene jacket is rugged, durable and easy to strip. This is the same cable used to construct the FIS Node Cables.

PART #	FIBER COUNT	DESCRIPTION	CABLE DIA.	PRICE
0006DA8WF06NS/BP	6	Central LT Armored SM with Ripcord - OS2	8.1mm	\$1.05/mtr
0012DA8WF12NS/BP	12	Central LT Armored SM with Ripcord - OS2	8.1mm	1.20/mtr



TLC GEL FREE INDOOR/OUTDOOR CABLE

This cable has no gel fill to complicate the connectorization process. Instead, water swellable yarn replaces the gel. Each tube contains colored bare fibers, making your installation simple and fast. Available in 2 to 72 fibers. Fiber counts 2-12 are in one subunit and larger fiber counts are in separate subunits in multiples of 12. Jackets are available in Riser and Plenum. The FIS Fan Out Kits are a perfect match with this cable.

PART #	FIBER COUNT	DESCRIPTION	PRICE
S09-DL06-CZNRBL	6	SM 9/125µm Riser PVC Black - OS2	70¢ /Mtr.
S09-DL12-CZNRBL	12	SM 9/125µm Riser PVC Black - OS2	90¢ /Mtr.
S09-DL24-CZNRBL	24	SM 9/125µm Riser PVC Black - OS2	\$1.85 /Mtr.
S09-DL48-CZNRBL	48	SM 9/125µm Riser PVC Black - OS2	2.30 /Mtr.
S09-DL72-CZNRBL	72	SM 9/125µm Riser PVC Black - OS2	3.55 /Mtr.
M62-DL-06-C3NRBL	6	MM 62.5µm Riser PVC Black - OM1	1.25 /Mtr.
M62-DL-12-C3NRBL	12	MM 62.5µm Riser PVC Black - OM1	1.75 /Mtr.
M50-DL06-CGNRBL	6	MM 50/125µm Riser PVC Black - OM3	1.65 /Mtr.
M50-DL12-CGNRBL	12	MM 50/125µm Riser PVC Black - OM3	2.75 /Mtr.

The Light Connection



FIS BLUE TACTICAL CABLE

FIS Blue fiber optic tactical cable consists of a rugged, flexible polyurethane outer jacket and either two or four 900µm tight-buffered fibers surrounded by aramid yarn and an aramid ripcord. The jacket is pressure extruded over the strength member which allows the pulling device to be attached directly to the cable's outer jacket. This will transfer the pulling force directly to the strength members with no slippage.

PART #	FIBER COUNT	DESCRIPTION	PRICE
FB-SM-TACCABLE-6	6	SM 9/125µm Tactical Cable - OS2	\$1.50 /Mtr.
FB-SM-TACCABLE-12	12	SM 9/125µm Tactical Cable - OS2	2.25 /Mtr.
FB-MM-TACCABLE-6	6	MM 62.5/125µm Tactical Cable - OM1	3.25 /Mtr.
FB-MM-TACCABLE-12	12	MM 62.5/125µm Tactical Cable - OM1	5.75 /Mtr.
FB-50-TACCABLE-6	6	MM 50/125µm Tactical Cable - OM3	3.60 /Mtr.
FB-50-TACCABLE-12	12	MM 50/125µm Tactical Cable - OM3	6.40 /Mtr.



AFL TACTICAL CABLE

Cut-resistant, flame-retardant polyurethane outer jacket, highly flexible construction allows for multiple deployments, all aramid strength members, performance in wide temperature range, high impact and crush resistance. Tested to meet or exceed EIA/TIA 568-B3, Telcordia GR-409-CORE, ANSI/ICEA S-83-596, ANSI/ICEA S-104, two and four fiber cables designed to meet MIL-PRF-85045.

PART #	FIBER COUNT	DESCRIPTION	PRICE
XU004958180GSH	4	SM 9/125µm Tactical Cable - OS2	\$1.80 /Mtr.
XU006961180GSH	6	SM 9/125µm Tactical Cable - OS2	2.65 /Mtr.
XU012970180GSH	12	SM 9/125µm Tactical Cable - OS2	2.95 /Mtr.
XU004658180GSH	4	MM 62.5/125µm Tactical Cable - OM1	2.75 /Mtr.
XU006661180GSH	6	MM 62.5/125µm Tactical Cable - OM1	3.60 /Mtr.
XU012670180GSH	12	MM 62.5/125µm Tactical Cable - OM1	6.30 /Mtr.

AFL



AFL MINI-SPAN® ADSS CABLE

AFL Mini-Span® All-Dielectric Self-Supporting (ADSS) cable is designed for outside plant aerial and duct applications in local and campus network loop architectures. A separate messenger support wire hanging system is not required, greatly reducing installation time and improving upfront and maintenance labor costs. Mini-Span® single-mode and laser-optimized multi-mode fibers are available. (Minimum order quantities may be required)

PART #	FIBER COUNT	DESCRIPTION	PRICE
AE-0129C520-AA4	12	SM Mini-Span® 424 - OS2	\$1.95 /Mtr.
AE-0249C520-AA4	24	SM Mini-Span® 424 - OS2	2.20 /Mtr.
AE-0489C520-AA4	48	SM Mini-Span® 424 - OS2	2.70 /Mtr.
AE-0729C820-EA7	72	SM Mini-Span® 535 - OS2	5.25 /Mtr.
AE-0066C520-AA4	6	62.5/125µm MM Mini-Span® 424 - OM1	1.80 /Mtr.
AE-0126C520-AA4	12	62.5/125µm MM Mini-Span® 424 - OM1	2.95 /Mtr.

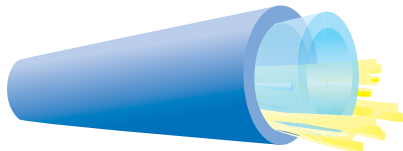
AFL



FIS now offers OPGW cable from AFL. Ask your sales associate for details.

KEY FEATURES INCLUDE:

- Designed to terminate to a wide range of connector styles.
- Accommodates bare or tight buffered fibers.
- Provides durable fiber protection and emulates standard simplex and duplex cable.
- Consists of an inner tube surrounded by aramid fibers and a PVC jacket.
- 12 standard colors for easy identification.
- ONLY 3.0mm has a pull string



900µm FURCATION TUBE

This 900µm furcation tube accepts 250µm diameter coated fiber. Standard material is Hytrel and other colors are available.

PART #	DESCRIPTION	PRICE
F00-FR900R-CLEAR	Clear (Accepts 250µm)	50¢ /Mtr.
F00-FR900-HN	Opaque (Accepts 250µm)	50¢ /Mtr.
F00-FR900-HW	White (Accepts 250µm)	50¢ /Mtr.
F00-FR900-HY	Yellow (Accepts 250µm)	50¢ /Mtr.
F00-FR900-HO	Orange (Accepts 250µm)	50¢ /Mtr.
F00-FR900-HA	Aqua (Accepts 250µm)	50¢ /Mtr.

2.0mm FURCATION TUBE

Our 2.0mm furcation tubing has an inner tube surrounded by aramid fibers. The inner tube accepts 250µm and 900µm (1.5mm OD inner tube for 900µm) bare fiber. Other colors available.

PART #	DESCRIPTION	PRICE
F00-FR2NUO-900	Orange (Accepts 250µm)	50¢ /Mtr.
F00-FR2NUY-900	Yellow (Accepts 250µm)	50¢ /Mtr.
F00-FR2NUA-900	Aqua (Accepts 250µm)	50¢ /Mtr.
F00-FR2-NUO	Orange (Accepts 900µm)	50¢ /Mtr.
F00-FR2-NUY	Yellow (Accepts 900µm)	50¢ /Mtr.
F00-FR2-NUR	Red (Accepts 900µm)	50¢ /Mtr.
F00-FR2-NUB	Blue (Accepts 900µm)	50¢ /Mtr.
F00-FR2-NUG	Green (Accepts 900µm)	50¢ /Mtr.
F00-FR2-NUA	Aqua (Accepts 900µm)	50¢ /Mtr.

3.0mm FURCATION TUBE

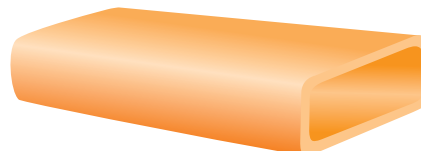
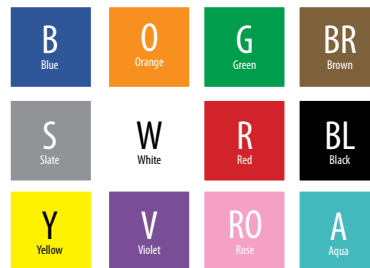
Our 3.0mm furcation tube has an inner hollow tube with a **pull string** and is design for use with 250µm fiber.

The 900µm inner hollow tube, the same tube found in FIS Universal Breakout Kits, may now be purchased separately.

Includes aramid yarn strength member. Other colors available.

PART #	DESCRIPTION	PRICE
F00-FR3NUO-900	Orange (Accepts 250µm)	50¢ /Mtr.
F00-FR3NUY-900	Yellow (Accepts 250µm)	50¢ /Mtr.
F00-FR3NUA-900	Aqua (Accepts 250µm)	50¢ /Mtr.
F00-FR3-NUO	Orange (Accepts 900µm)	50¢ /Mtr.
F00-FR3-NUY	Yellow (Accepts 900µm)	50¢ /Mtr.
F00-FR3-NUR	Red (Accepts 900µm)	50¢ /Mtr.
F00-FR3-NUB	Blue (Accepts 900µm)	50¢ /Mtr.
F00-FR3-NUG	Green (Accepts 900µm)	50¢ /Mtr.
F00-FR3-NUA	Aqua (Accepts 900µm)	50¢ /Mtr.

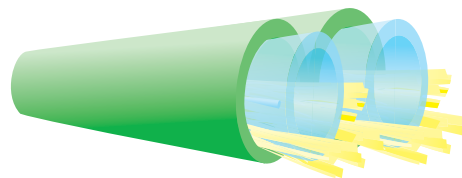
OTHER COLORS AVAILABLE



RIBBON FURCATION TUBE

FIS offers ribbon furcation tubing for protection of bare ribbon fibers. Standard size fits fiber counts of 4, 6, 8 and 12 fibers. There is no inner tube or strength member.

PART #	DESCRIPTION	PRICE
F00-FRRB-NRO	Orange	75¢ /Mtr.
F00-FRRB-NRY	Yellow	75¢ /Mtr.
F00-FRRB-NRA	Aqua	75¢ /Mtr.



DUPLEX FURCATION TUBE

TLC 2.0mm and 3.0mm duplex furcation tubing consists of an inner tube surrounded by aramid fibers, and a PVC jacket sized for the industry standard connectors. The duplex design allows for professional termination of connector pairs.

2.0mm

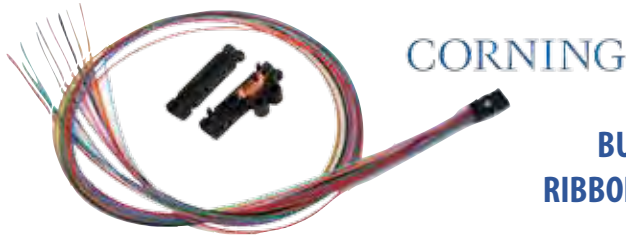
PART #	DESCRIPTION	PRICE
F00-FDX2-NUO	Orange (Accepts 250µm)	75¢ /Mtr.
F00-FDX2-NUY	Yellow (Accepts 250µm)	75¢ /Mtr.
F00-FDX2-NUA	Aqua (Accepts 250µm)	75¢ /Mtr.

3.0mm

F00-FDX3-NUO	Orange (Accepts 900µm)	75¢ /Mtr.
F00-FDX3-NUY	Yellow (Accepts 900µm)	75¢ /Mtr.
F00-FDX3-NUG	Green (Accepts 900µm)	75¢ /Mtr.
F00-FDX3-NUA	Aqua (Accepts 900µm)	75¢ /Mtr.

TECH TIP:

Rosin is useful when working with loose tube fiber. When furcating this type of fiber, you must first remove the loose tube buffers and use solvents to clean off the cable filling grease or "Ickypic" that surrounds the fibers. Applying rosin to the exposed and cleaned fibers will remove stickiness caused by any unremoved Ickypic. This will help prevent your cable from getting stuck and breaking fibers as you pull it through a cable run. See Rosin Bag on page 70.



CORNING
BUFFER TUBE RIBBON FAN-OUT KITS



FIS BUFFER TUBE/RIBBON FAN-OUT KITS

CCS BUFFER TUBE FAN-OUT KITS

CCS Indoor and Outdoor Buffer Tube Fan-Out Kits provide the ultimate solution for the field installation of connectors for the termination of 6- and 12-fiber buffer tubes. Ideal for indoor or outdoor crossconnects, these kits provide the most compact, easy-to install fan-out solution. The compact design requires no additional hardware. The 900µm fan-out assembly is color coded to match the fiber color scheme and is available in 6- or 12-fiber units in lengths of 25, 36 or 47 inches. For instructions: <http://www.corning.com/cablesystems/>

PART #	DESCRIPTION	PRICE
FAN-BT25-06	6 Fiber (25" Tubing)	\$14.25
FAN-BT36-06	6 Fiber (36" Tubing)	14.50
FAN-BT25-12	12 Fiber (25" Tubing)	16.30
FAN-BT36-12	12 Fiber (36" Tubing)	16.95

FIS Fan-Out Kits are designed for a simple and easy breakout from standard Buffer Tubes or Ribbon Cables. The kits are pre-configured for 4,6 and 12 fiber applications with 25" and 36" lengths of 900µm Hytrel tubing in the appropriate industry-standard color code. FIS Fan-Out Kits have a unique snap-together design that offers the ability to unsnap the unit for reentry if necessary. Each kit comes with the adapters that accommodate round cable configurations, such as Buffer Tubes and Ribbon Cables. This cost-saving feature allows you to cover your application possibilities with just one style.

PART #	DESCRIPTION	PRICE
F1-BF0425M	4 Fiber (25" Tubing) Accepts 250µm	\$9.75
F1-BF0625M	6 Fiber (25" Tubing) Accepts 250µm	10.50
F1-BF1225M	12 Fiber (25" Tubing) Accepts 250µm	11.75
F1-BF0436M	4 Fiber (36" Tubing) Accepts 250µm	10.50
F1-BF0636M	6 Fiber (36" Tubing) Accepts 250µm	11.75
F1-BF1236M	12 Fiber (36" Tubing) Accepts 250µm	12.75



BREAKOUT KITS

CCS SPIDER FAN-OUT KITS

Corning® Cable Systems' Spider Fan-Out Kits are designed for both factory or field terminations of distribution or loose tube cables from 4 to 24 fibers. The fan-out tubing provides three layers of protection consisting of a Teflon inner tube, a dielectric strength member and an outer protective PVC jacket.

For instructions: <http://www.corning.com/cablesystems/>

PART #	DESCRIPTION	PRICE
SFK-P06-250M	6 Fiber accepts 250µm (Orange)	\$40.00
SFK-P12-250M	12 Fiber accepts 250µm (Orange)	55.00
SFK-P24-250M	24 Fiber accepts 250µm (Orange)	96.25
SFK-P06-250S	6 Fiber accepts 250µm (Yellow)	40.00
SFK-P12-250S	12 Fiber accepts 250µm (Yellow)	55.00
SFK-P24-250S	24 Fiber accepts 250µm (Yellow)	96.25
SFK-P06-900M	6 Fiber accepts 900µm (Orange)	40.00
SFK-P06-900S	6 Fiber accepts 900µm (Yellow)	40.00

RIBBON FAN-OUT KITS

Corning® Cable Systems' Ribbon Fan-Out Kits are specifically designed for the termination of 12-fiber ribbon. Perfect for users who want to field-install connectors. Kits feature a 900µm fan-out assembly that is color-coded to match the industry-standard color code. For instructions: <http://www.corning.com/cablesystems/>

PART #	DESCRIPTION	PRICE
RIB-FAN-1225	12 Ribbon Fiber (25" Tubing)	\$25.00
RIB-FAN-1236	12 Ribbon Fiber Fan-Out kit (36" Tubing)	28.00

FIS UNIVERSAL BREAKOUT KITS

The ability to connectorize loose tube fiber requires the installation of a 3mm jacket over the 250µm coated fiber. The jacket, or furcation tube, contains an inner pull string for easy installation. This low-cost Universal Breakout Kit provides directions and materials to prepare cable ends for connectorization. Kit includes: 25 meters of 3mm furcation tubing, 2 sizes of black shrink tube (13mm and 26mm diameter), 2 gel remover packets, 2 two gram Hysol Epoxy packs, 8 pcs. adhesive shrink tube and 12 pcs. clear shrink tube.

PART #	DESCRIPTION	PRICE
F1-5527	Orange Furcation Tube for Multimode	\$39.95
F1-5528	Yellow Furcation Tube for Singlemode	39.95



FIS COLOR CODED BREAKOUT KITS

The FIS 2mm and 3mm Breakout Kits are designed for the quick and simple termination of distribution cables. Color coded tubing eliminates the need for marking individual fiber ends, as your cable will be color coded to TIA/EIA standards. Testing and installation time is also reduced. **Custom Colors Available.**

PART #	DESCRIPTION	PRICE
F1-BOK0640-20M	2mm, 6 Fiber (40" Tubing) Accepts 900µm	\$27.00
F1-BOK1240-20M	2mm, 12 Fiber (40" Tubing) Accepts 900µm	31.50
F1-BOK0640MA	2mm, 6 Fiber (40" Tubing) Accepts 900µm - Aqua	27.00
F1-BOK1240MA	2mm, 12 Fiber (40" Tubing) Accepts 900µm - Aqua	31.50
F1-BOK0640M	3mm, 6 Fiber (40" Tubing) Accepts 900µm	27.00
F1-BOK1240M	3mm, 12 Fiber (40" Tubing) Accepts 900µm	31.50
F1-BOK0640M250	3mm, 6 Fiber Colored Coded, Accepts 250µm - NEW	27.00
F1-BOK1240M250	3mm 12 Fiber Colored Coded, Accepts 250µm - NEW	31.50





IN STOCK



INNERDUCT

Fiber Instrument Sales distributes an Innerduct product line consisting of corrugated HDPE, riser rated PVC and plenum rated PVDF Innerduct in a variety of colors and sizes. A full line of fittings and accessories that complement the product line are available as well. The plenum and riser product lines are both UL 2024 listed and are among the most flexible flame-rated Innerduct products on the market. The HDPE outside plant products offer high tensile strength while being impervious to abrasion, scouring and root penetration. **Innerduct available in 250 and 500 foot coils.**

HDPE CORRUGATED INNERDUCT - OUTDOOR RATED

PART #	DESCRIPTION	OUT. DIA.	IN. DIA.	PRICE
F1-14383P250	Single-Wall Orange with 900 lb. Pull Tape -250ft	1.35"	1.049"	\$125.00/Coil
F1-14383P500	Single-Wall Orange with 900 lb. Pull Tape -500ft	1.35"	1.049"	250.00/Coil
F1-14383SP250	Split HDPE Orange -250ft	1.35"	1.049"	150.00/Coil
F1-14383SP500	Split HDPE Orange -500ft	1.35"	1.049"	295.00/Coil

INDOOR RATED INNERDUCT

PART #	DESCRIPTION	OUT. DIA.	IN. DIA.	PRICE
F1-14363P250	Riser Rated Orange with 900 lb. Pull Tape -250ft	1.35"	1.049"	\$187.50/Coil
F1-14363P500	Riser Rated Orange with 900 lb. Pull Tape -500ft	1.35"	1.049"	375.00/Coil
F1-11437P250	Plenum Rated Orange with 900 lb. Pull Tape -250ft	1.35"	1.049"	565.00/Coil
F1-11437P500	Plenum Rated Orange with 900 lb. Pull Tape -500ft	1.35"	1.049"	1,125.00/Coil



Innerduct Couplers

INNERDUCT COUPLERS

PART #	DESCRIPTION	PRICE
F1-CP83BLK	1" PE Snap Coupling	65¢
F1-CP23	1" Riser Rated Snap Coupling	\$1.25
F1-CP53	1" Plenum Rated Snap Coupling	3.25



Innerduct Cutters

HDPE / PVC INNERDUCT CUTTERS

PART #	DESCRIPTION	PRICE
F1-SL200	Innerduct Cutters - Will Cut Diameters 1/2" to 1.5"	\$25.00



P96TB01TRBL22

TLC PLASTIC FIBER OPTIC CABLE AND ACCESSORIES

TLC plastic optical fiber cables are designed for data transmission applications. The standard product is a 2.2mm jacket over 1.0mm step index PMMA plastic fiber. Standard colors are red and black, other colors are available upon request.

PART #	DESCRIPTION	DIA.	PRICE
P96TB01TRBL22	960/1000µm Core Simplex Plastic Fiber (Black)	2.2mm	45¢ /Mtr.
P96TD02TRBL44	960/1000µm Core Duplex Plastic Fiber (Black)	2.2/4.5mm	95¢ /Mtr.
POF-KIT	Plastic Fiber Optic Tool Kit		\$120.00
NN044	No-Nik Wire Stripper .044		35.00
POF-HKN	Hot Knife for Cutting Plastic Fiber of all Diameters		17.95
F1-0065	ST Connector 1mm Stainless Alloy Ferrule for Plastic Fiber		3.25



F1-9795-3

ROSIN BAG

FIS technicians utilize rosin bags to ease the application of furcation tubing and help remove flooding gels while stripping. The rosin bags are used to dry wet surfaces making furcation quicker and easier. Rosin bags are available in 3 packs only.

PART #	DESCRIPTION	PRICE
F1-9795-3	3 Rosin Bags per pack	\$7.95



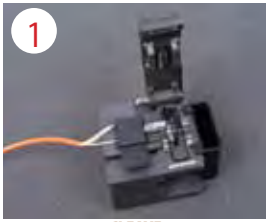
Spiral Wrap

SPIRAL WRAP

PART #	DESCRIPTION	PRICE
HT316N	Nylon Spiral Cut Tubing 3/16"	\$1.49/mtr

SATISFACTION GUARANTEED

THE 2 MINUTE CONNECTION



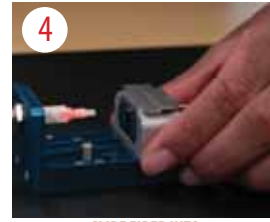
CLEAVE



LOAD IN HOLDER



LOAD FIBER



SLIDE FIBER INTO CONNECTOR and MAKE CONNECTION



EPOXY FIBER INTO PLACE

FIS BOBTAIL™ NO-POLISH CONNECTOR (No Fiber Polishing Required)

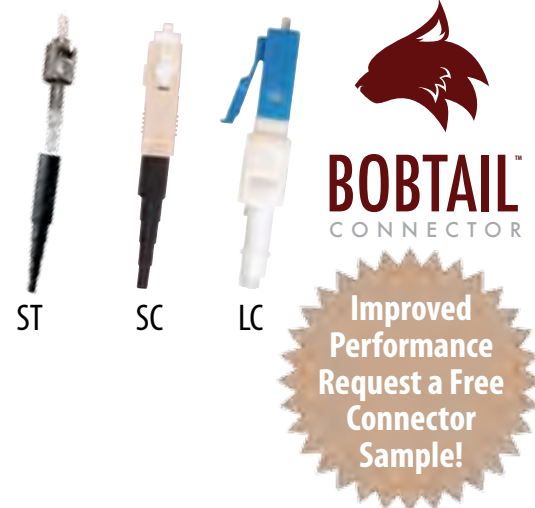
FIS Bobtail Connectors provide a pre-polished, quick termination style connector for an industry leading value. Bobtail's are ideal for many applications including, but not limited to, local area networks, restoration work, testing applications, and laboratory settings. The open epoxy canal allows application of Crazy Glue, Super Glue or any Cyanoacrylate adhesives. As always, your satisfaction is guaranteed or return the connectors to FIS for a complete refund.

PART #	DESCRIPTION	BOOT SIZE	PRICE
F1-0066-BT	Bobtail ST Pre-polished Connector - 62.5µm (OM1)	900µm	\$4.95
F1-006650-BT	Bobtail ST Pre-polished Connector - 50µm (OM2)	900µm	4.95
F1-0069-BT	Bobtail ST Pre-polished Connector - Singlemode	900µm	5.95
F1-5066-BT	Bobtail LC Pre-polished Connector - 62.5µm (OM1)	900µm	5.95
F1-506650-BT	Bobtail LC Pre-polished Connector - 50µm (OM2)	900µm	5.95
F1-5069-BT	Bobtail LC Pre-polished Connector - Singlemode	900µm	6.95
F1-3066-BT	Bobtail SC Pre-polished Connector - 62.5µm (OM1)	900µm	4.95
F1-306650-BT	Bobtail SC Pre-polished Connector - 50µm (OM2)	900µm	4.95
F1-3069-BT	Bobtail SC Pre-polished Connector - Singlemode	900µm	5.95

FIS BOBTAIL™ PULL FORCE (LBS.) VS . COMPETITION			
Test #1	Connector A (leading competitor)	Connector B (leading competitor)	Bobtail™ Connector
Test #1	.6*	1.7	1.7
Test #2	.5*	1.8	1.3
Test #3	.4	1.8	1.2
Test #4	.5	2.1	1.9
Test #5	1.0*	1.3	2.1
Test #6	.8	1.6	2.3
	.6 lbs. average	1.71 lbs. average	1.75 lbs. average

* Connector broke off fiber

CAUTION:
FIS discourages the use of the Bobtail or any mechanical splice style connector in 10 Gig network systems.



BOBTAIL™
CONNECTOR

Improved Performance
Request a Free Connector Sample!

FIS UNIVERSAL SLIDING BOBTAIL HOLDER

The FIS assembly tool is now designed with a precision machined sled to aid in the insertion of the prepared field fiber. This feature virtually eliminates fiber stub breakage and minimizes insertion loss. Includes adapter plates for SC, LC, and ST Bobtail Connectors.

PART #	DESCRIPTION	PRICE
F1-00SUNBTH	FIS Universal Sliding Bobtail Holder	\$150.00



F1-00SUNBTH

FIS QUICK CONNECTOR RESTORATION KIT

This restoration kit allows any technician to quickly install an SC or LC style connector on a 900µm buffered fiber multimode 62.5/125µm or 50/125µm. Available in either an SC or LC configuration the kit contains six of each 62.5 and 50µm quick termination FIS Bobtail connectors for total of 12 connectors. Includes a score/snap cleaver, fiber strippers, scissors, fiber disposal unit, cleaning wipes, black marker, ruler, quick glue, connectors, instructions and carry case.

PART #	DESCRIPTION	PRICE
F1-LCBT-QKIT	FIS Quick Connector Restoration Kit, LC version Multimode fiber	\$199.00
F1-SCBT-QKIT	FIS Quick Connector Restoration Kit, SC version Multimode fiber	199.00



F1-LCBT-QKIT

DELUXE BOBTAIL™ INSTALLATION KIT

The Bobtail™ Installation Kit includes all the consumables and tools necessary for field termination of Bobtail™ connectors. When used in conjunction with the optional VFL it allows for active optimization of the connector before epoxy application.

QTY	DESCRIPTION	PART #
1	LYNX Cleaver	F1-LYNX
1	Universal Sliding Bobtail Holding Fixture	F1-00SUNBTH
1	Quickset Adhesive	F1-BTXY
1	Stripping Tool	F1-1301T
1	Dry Wipes	F1-6702
1	4oz. Bottle of Alcohol	F1-0007
1	Connector Cleaner	F1-7020C
6	Syringe Tips	F1-00-TIP
1	Pocket Fault Locator	F1-9000
3	Assorted SM and MM Patch Cable	

PART #	DESCRIPTION	PRICE
F1-00UNBTKITSM PFL	Universal Bobtail Kit for both SM and MM	\$1,195.00



F1-00UNBTKITSM PFL



UNICAM® PRETIUM™ PRE-POLISHED CONNECTOR AND TOOL KIT (No Fiber Polishing Required)

The UniCam® Pretium™ Tool Kit can quickly install a UniCam Connector in about 45 seconds. From the cleaver, with its integrated fiber scrap bin and dual-clamp precision hold, to the installation tool with its immediate go/no-go feedback signal, the UniCam® Pretium™ Tool Kit was thoughtfully designed with the needs of network installers in mind.



TKT-UNICAM-PFC

KIT CONTENTS

DESCRIPTION	PART #
Trash Container	2104498-01
Scissors	100294-01
Black Permanent Marker	2104499-01
Fiber Optic Cleaning Fluid	*
Fiber Wipes	*
Pretium Cleaver	FBC-007
Pretium UniCam Installation Tool	TL-UCP
Cable Jacket Stripping Tool	3206001-01
Dual-Hole Stripping Tool	2104502-01
1.25 mm Ferrule Adapter	VFL-A125
UniCam Crimp Tool	3201007-01
Lanyards (2)	02-002853-001
Cleaning Stick - Size 2.5 mm	*
2.5 mm Ferrule Adapter (with Installation Tool)	VFL-250

PART#	DESCRIPTION	PRICE
TKT-UNICAM-PFC	Pretium™ Tool Kit	\$1,722.00

Note: UniCam Pretium connectors can be terminated using the original TKT-UNICAM kit, however, Pretium performance is not guaranteed.

CONNECTORS AND ACCESSORIES

PART #	STYLE	TYPE	FERRULE	TYPICAL LOSS	PRICE	PART #	STYLE	TYPE	FERRULE	TYPICAL LOSS	PRICE
95-000-50	ST	MM, 62.5/125µm	Composite	.3dB	\$10.65	95-050-41	SC	MM, 50/125µm	Zirconia	.3dB	\$14.75
95-050-51	ST	MM, 50/125µm	Zirconia	.3dB	14.75	95-050-41X	SC	MM, OM3 10G	Zirconia	.3dB	15.25
95-000-51	ST	MM, 62.5/125µm	Zirconia	.3dB	14.50	95-000-99	LC	MM, 62.5/125µm	Zirconia	.3dB	15.00
95-200-51	ST	SM, 8.3/125µm	Zirconia	.4dB	16.75	95-050-99	LC	MM, 50/125µm	Zirconia	.3dB	15.00
95-000-41	SC	MM, 62.5/125µm	Zirconia	.3dB	14.50	95-200-99	LC	SM, 8.3/125µm	Zirconia	.3dB	18.00
95-200-41	SC	SM, 8.3/125µm	Zirconia	.4dB	16.75	95-050-99X	LC	MM, OM3 10G	Zirconia	.3dB	15.25
95-000-40	SC	MM, 62.5/125µm	Composite	.3dB	10.65	TL-UC-01		Universal UniCam Installation Tool			485.00



8800



8865-AT

3M™ NO-POLISH CONNECTORS (No Fiber Polishing Required)

3M No Polish Connectors enable fast, on-site installation utilizing a one piece, pre-assembled design that eliminates field polishing and loose parts. Install - without electrical power - using a simple field tool.

PART #	DESCRIPTION	PRICE
6800-50	SC Multimode 50µm 250/900µm Buffered Fiber	\$10.25
6800-625	SC Multimode 62.5µm 250/900µm Buffered Fiber	10.25
6800-50LOMMF	SC Multimode 50µm OM3 Laser Optimized Fiber 250/900µm Buffered Fiber	10.80
8800	SC Singlemode 250/900µm Buffered Fiber	11.89
8800-APCAS	SC APC Singlemode Angle Splice No Polish Connector	13.65
8800-APCFS	SC APC Singlemode Flat Splice No Polish Connector	13.65
6830-50	LC Multimode 50µm 250/900µm Buffered Fiber	10.50
6830-50LOMMF	LC Multimode 50µm OM3 Laser Optimized Fiber 250/900µm Buffered Fiber	11.00
6830-625	LC Multimode 62.5µm 250/900µm Buffered Fiber	11.00
8830	LC Singlemode 250/900µm Buffered Fiber	15.35
8865	No Polish Connector Kit without Cleaver	225.25
8865-C	No Polish Connector Kit with Cleaver	1,123.60
2565	No Polish Connector Angle Cleave Kit for use with 8800-APCAS (SC APC)	2,920.00
2534	Fiber Cleaver (only)	885.00
8835-AT	LC No Polish Connector Assembly Tool 250/900µm	35.00
8865-AT	No Polish Connector Assembly Tool (only)	35.00



LEVITON FAST-CURE CONNECTORS AND TOOL KIT (Fiber Polishing Required)

Obtain the most robust connections using the Leviton FAST-CURE connectors. An anaerobic fiber optic field-installable connector available in ST, SC, and LC styles. Fiber types available are OM3 Multimode, Multimode and Singlemode.

PART #	DESCRIPTION	PRICE
49990LDL	LC Simplex, 50µm OM3, for 900µm fiber, Aqua Boot	\$5.70
49990LL2	LC Simplex, 50µm OM3, for 3mm fiber, Aqua Boot	5.65
49990MDL	LC Simplex, 50µm or 62µm, for 900µm fiber, Beige Boot	5.85
49990SL2	LC Simplex, Singlemode, for 3mmµm fiber, Blue Boot	11.80
49990SDL	LC Simplex, Singlemode, for 900µm fiber, Blue Boot	11.80
49990LSC	SC Simplex, 50µm OM3, for 900µm fiber, Aqua Boot	5.95
49990SSC	SC Simplex, Singlemode, for 900µm fiber, Blue Boot	8.65
49990SST	ST Simplex, Singlemode, for 900µm fiber, Blue Boot	7.35
49990MST	ST Simplex, 50µm or 62µm, for 900µm fiber, Beige Boot	4.30
49800FTK	FAST-CURE Termination Kit (Adhesive/Accelerator kit sold separately)	927.00
F1ANAEROBICKIT	FIS Adhesive #7649, Accelerator #680 Kit with syringe tips	35.00

LEVITON FASTCAM CONNECTORS (No Fiber Polishing Required)

Field installable connectors from Leviton are designed for applications that require fast network deployment. FASTCAM connectors are prepolished, requiring no polishing or epoxy curing. A precision mechanical termination uses molded V-groove technology to retain and align the fiber. Terminate on 250µm/900µm buffered fiber and/or 2mm or 3mm jacketed cables.

PART #	DESCRIPTION	PRICE
49991-SSC	FastCAM SC Singlemode Connector, Blue Housing	\$16.50
49991-LSC	FastCAM SC 50/125µm OM3 10GiG Multimode Connector, Aqua Housing	14.00
49991-MSC	FastCAM SC 62.5/125µm Multimode Connector, Beige Housing	13.00
49991-SSC	FastCAM SC 50/125µm Multimode Connector, Black Housing	13.00
49991-SST	FastCAM ST 50/125µm Multimode Connector, Black Housing	13.00
49991-SST	FastCAM ST Singlemode Connector, Blue Housing	16.80
49991-MST	FastCAM ST 62.5/125µm Multimode Connector, Beige Housing	13.00
49991-SLC	FastCAM LC Singlemode Connector, Blue Housing	17.85
49991-LLC	FastCAM LC 50/125µm OM3 10GiG Multimode Connector, Aqua Housing	14.50
49991-MLC	FastCAM LC 62.5/125µm Multimode Connector, Beige Housing	13.50
49991-5LC	FastCAM LC 50/125µm Multimode Connector, Black Housing	13.50
49800-MSK	FastCAM Tool Kit with Cleaver	1,095.00



3M™ HOT MELT

3M Hot Melts continue to be a popular choice among installers in the field. The Hot Melt connectors utilize an advanced adhesive technology eliminating the application of epoxy. The connectors provide quick termination in 2 minutes or less and are re-heatable to allow for fiber repositioning.

Fiber polishing required with Hot Melt Connectors.

PART #	DESCRIPTION	PRICE
6366	Hot Melt Kit (120v)	\$1,365.00
6362	Hot Melt Kit (220v)	1,456.70



3M™ HOT MELT CONNECTORS (Fiber Polishing Required)

PART #	STYLE	FIBER SIZE	TYPICAL LOSS	TYPE	PRICE
6100	ST	125µm	.2dB	Multimode	\$5.25
8100YS	ST	126µm	.2dB	Singlemode	6.25
6200	FC	125µm	.2dB	Multimode	7.30
8200W	FC	126µm	.2dB	Singlemode	8.25
6300W	SC	125µm	.2dB	Multimode	5.25
8300	SC	126µm	.2dB	Singlemode	6.25
6600-S	LC Simplex	125µm	.2dB	MM/900µm Boot	7.50
6601-D	LC Duplex	125µm	.2dB	MM/900µm Boot	15.50
6602-S	LC Simplex	125µm	.2dB	MM/1.6-2mm Boot	8.45
6602-D	LC Duplex	125µm	.2dB	MM/1.6-2mm Boot	15.50
6603-S	LC Simplex	125µm	.2dB	MM/3.0mm Boot	8.45
6603-D	LC Duplex	125µm	.2dB	MM/3.0mm Boot	15.50
8600-S	LC Simplex	126µm	.2dB	SM/900µm Boot	9.50
8602-S	LC Simplex	126µm	.2dB	SM/1.6-2mm Boot	10.30
8603-S	LC Simplex	126µm	.2dB	SM/2.4-3.0mm Boot	10.30

KIT CONTENTS			
QTY	DESCRIPTION	QTY	DESCRIPTION
1	120 or 220V Oven	1	Crimp Tool
4	Connector Holders	1	Fiber Scribe
2	Round Polishing Pad	1	View Scope (200x)
2	Soft Polishing Pad	100	Lint-Free Cloths
50	2µm Lapping Film	1	Alcohol Bottle (empty)
10	9µm Diamond Film	1	Water Bottle (empty)
20	0.5µm Final Film	1	Fiber Scrap Can
2	Polishing Jig	1	Roll-Up Pouch
2	Bottle Adhesive	1	Fiber Marking Pen
1	Kevlar Snips	1	Training CD
1	Stripping Tool	1	Instructions (paper)

HOT MELT ACCESSORIES

PART #	DESCRIPTION	PRICE
F1-9110	FIS 6 Port Hot Melt Oven 110V	\$296.00
F1-9110220	FIS 6 Port Hot Melt Oven 220V	430.00
F1-9130	FIS 12 Port Hot Melt Oven 110V	345.00
661X-0.5S	0.5µm Diamond Lapping Film	5.85
6192A	2µm 5" Polish Film 50 Pack	19.00
6192B	2µm 4" Polish Film for 6850A Polisher (with hole) 50 per Pack	15.50
6192-AA	Singlemode Final Polish Film for Hot Melts	50¢
6650-LC	LC Hot Melt Expansion Kit (to be used with Hot Melt 6365 or 6361 kit)	805.00
6650-LH	LC Hot Melt Holders (4 pk)	265.90



3M™ VOLITION™ PRODUCTS AND SUPPLIES

PART #	DESCRIPTION	PRICE
VOL-0001	VF-45 Socket, Multimode (socket, housing, fiber holder and boot)	\$6.80
VOL-0011	VF-45 Socket, Fiber Holder	5.60
VOL-0563	VF-45 Quick Install Kit	1,213.50
VOL-0562J	Cleave Button with Scribe	165.75
VOL-0562K666XW	Lapping Film, 2"x5", 1µm Diamond	4.65
VOL-0573	Maintenance Cleaning Kit	206.75





CS001201



KIT CONTENTS

QTY	DESCRIPTION	PART #
1	CT-30A Universal Cleaver	S014080
1	Fast SC Assembly Tool	CS007780
1	Fast LC Assembly Tool	CS007779
1	3mm Cable Clamp	S014704
1	2mm Cable Clamp	S014705
1	250/900µm Cable Clamp	CS004442
1	Fiber Preparation Fluid	FRF1-00-0900
1	Installation Instructions	CS007701
1	Strip Length Template	CS001203
1	Assembly Video	CS001204
1	Carrying Case	CS001202

PART #	DESCRIPTION	PRICE
CS001201	Fast Connector Tool Kit	\$1,375.00

FAST CONNECTORS

PART #	DESCRIPTION	PRICE - 6 pack
FAST-SC-MM506	Fast-SC 50/125µm MM 900µm Boot	\$56.35
FAST-SC-MM50L6	Fast-SC OM3 10G, 900µm Boot	59.40
FAST-SC-MM6256	Fast-SC 62.5/125µm MM 900µm Boot	56.40
FAST-SC-SM6	Fast-SC SM 900µm Boot	72.80
FAST-ST-MM6256	Fast-ST 62.5/125µm 900µm Boot	58.80
FAST-ST-SM6	Fast-ST SM 900µm Boot	72.80
FAST-LC-MM6256	Fast-LC 62.5/125µm 900µm Boot	62.40
FAST-LC-MM506	Fast-LC 50/125µm 900µm Boot	62.40
FAST-LC-MM50L6	Fast-LC OM3 10G 900µm Boot	65.40
FAST-LC-SM6	Fast-LC SM 900µm Boot	92.50



8765-APC



3M™ CRIMPLOK+™ SINGLEMODE CONNECTORS AND TOOL KIT (Fiber Polishing Required)

These new connectors from 3M provide fast, easy field installation of 900µm singlemode fiber without a splice, gel or adhesive. Features a metallic element that mechanically locks the fiber in place and a streamlined boot that attaches to the body minimizing the chance of losing or forgetting to install it during the termination process. The Crimplok+ connectors and tools are RoHS compliant.

PART #	DESCRIPTION	PRICE
8700-UPC	Crimplok+ Connector SC/UPC SM 900µm boot	\$12.00
8700-APC	Crimplok+ Connector SC/APC SM 900µm boot	15.95
8765-UPC	Crimplok+ Connector Termination Kit for SC/UPC	1,680.00
8765-APC	Crimplok+ Connector Termination Kit of SC/APC	1,680.00
8765-PSUPC	Crimplok+ Protrusion Setting Tool for SC/UPC	38.50
8765-PSAPC	Crimplok+ Protrusion Setting Tool for SC/APC	35.00
8765-NFUPC	Crimplok+ Nano Polishing Tool for SC/UPC	383.00
8765-NFAPC	Crimplok+ Nano Polishing Tool for SC/APC	383.00

3M™ CRIMPLOK™ CONNECTORS AND TOOL KIT (No Fiber Polishing Required)

Crimplok™ connectors combine the speed of non-adhesive connectors with the performance characteristics of epoxy and Hot Melt Connectors. Crimploks are the ideal solution when there is no power source or for working in tight workspaces. The Crimplok™ Termination Kit is designed to terminate your Crimplok ST and SC fiber optic singlemode and multimode connectors.

KIT CONTENTS

QTY	DESCRIPTION	PART #	QTY	DESCRIPTION	PART #
1	Crimp Tool	6955-C	1	Activation Tool, Crimplok	6955-T
1	Polish Tool	6955-P	1	View Scope, 100X	6355-A
50	Lapping Film, One Step, Crimplok	SP-00503	1	Buffer Stripper	6955-S
50	Lapping Film, Final SM, Crimplok	80611013121	1	Lint Free Cloths, (4"x4")	05-00017
1	Polishing Jig, Universal	8892			

PART#	DESCRIPTION	PRICE
6955	Crimplok Tool Kit	\$847.00

PART #	STYLE	FERRULE	TYPICAL LOSS	TYPE	PRICE
6901	ST	Zirconia	.2dB	Multimode	\$5.75
6900	SC	Zirconia	.2dB	Multimode	5.75
8901	ST	Zirconia	.1dB	Singlemode	7.95
8900	SC	Zirconia	.1dB	Singlemode	8.95
6365CT		3M Crimp Tool for Crimploks			150.00
6955T		3M Crimplok Activation Tool			197.00
SP-00503		3M Crimplok One-step Polish Film (Package of 50)			58.00
80-6110-1312-1		3M Crimplok Singlemode Final Step Film (Package of 50)			46.95

6955



8901

8900

8900



LC CONNECTORS

The LC connector licensed by Lucent Technologies provides a pull-proof design and small size perfect for high-density applications. Available in simplex or duplex versions. The LC connector is provided with a 1.25mm zirconia ferrule. The LC also incorporates a unique latching mechanism providing stability in system rack mounts.

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
FIS					
F1-5066	Simplex-MM	3mm	128µm	Zirconia	\$2.30
F1-5066AQ	Simplex-MM 10 Gig	3mm	126µm	Zirconia	2.50
F1-506616AQ	Simplex-MM 10 Gig	1.6-2mm	128µm	Zirconia	2.50
F1-506616	Simplex-MM	1.6-2mm	128µm	Zirconia	2.30
F1-5066900	Simplex-MM	900µm	128µm	Zirconia	2.30
F1-5069	Simplex-SM	3mm	126µm	Zirconia	2.75
F1-506916	Simplex-SM	1.6-2mm	126µm	Zirconia	2.75
F1-5069900	Simplex-SM	900µm	126µm	Zirconia	2.75
F1-5069APC	Simplex APC	3mm	126µm	Zirconia	5.35
F1-5069900APC	Simplex APC	900µm	126µm	Zirconia	5.35
F1-6066	Duplex-MM	3mm	128µm	Zirconia	4.75
F1-606616	Duplex-MM	1.6-2mm	128µm	Zirconia	4.75
F1-6066AQ	Duplex-MM 10 Gig NEW	3mm	128µm	Zirconia	5.00
F1-606616AQ	Duplex-MM 10 Gig NEW	1.6-2mm	128µm	Zirconia	5.00
F1-6069	Duplex-SM	3mm	126µm	Zirconia	5.75
F1-606916	Duplex-SM	1.6-2mm	126µm	Zirconia	5.75
F1-6069900	Duplex-SM	900µm	126µm	Zirconia	5.75
F1-5066AR	Anaerobic-MM	3mm	128µm	Zirconia	3.50
F1-6067	Duplex Mini LC-SM - Blue *	1.6mm	126µm	Zirconia	5.75
F1-6068AQ	Duplex Mini LC-MM 10 Gig *	1.6mm	127µm	Zirconia	4.75
F1-6068	Duplex Mini LC-MM - Beige *	1.6mm	127µm	Zirconia	4.75

*The Mini LC Connector is designed with a narrow ferrule pitch (5.25mm) to work with the Mini SFP (mSFP) transceiver.

CCS

95-100-LCSP	Simplex-MM	3.0mm	125.5µm	Zirconia	\$4.75
95-100-LCSP2	Simplex-MM	2.0mm	125.5µm	Zirconia	4.75
TRIGGER-BP-D	LC Clips(each) - Simplex to duplex converters				17c

MOLEX

106024-3500	Simplex-MM	900µm	128µm	Zirconia	\$5.50
106024-5500	Simplex-SM	900µm	126µm	Zirconia	8.40
106024-3259	Simplex-MM	3mm	127µm	Zirconia	5.25
106024-5259	Simplex-SM	3mm	126µm	Zirconia	8.70



F1-5066AQ



F1-6068AQ

CORNING



95-100-LCSP



106024-5500

BUY FIS IN BULK AND SAVE

FIS BULK CONNECTORS

FIS multimode and singlemode ST, SC, LC and FC connectors utilize a high quality 2.5mm zirconia ferrule. Bulk packaged in lots of 100 pieces, these connectors offer the best value in performance and cost savings. Provided with 3mm boots.

PART #	DESCRIPTION	PRICE
F1-0066-100	FIS MM ST Conn - (100 pk.)	\$135.00
F1-0069-100	FIS SM ST Conn - (100 pk.)	170.00
F1-5066-100	FIS MM LC Conn - (100 pk.)	200.00
F1-5069-100	FIS SM LC Conn - (100 pk.)	265.00
F1-2073-100	FIS MM FC Conn - (100 pk.)	298.00
F1-2070-100	FIS SM FC Conn - (100 pk.)	330.00
F1-3066-100	FIS MM SC Conn - (100 pk.)	190.00
F1-3069-100	FIS SM SC Conn - (100 pk.)	230.00
F1-3066AQ-100	FIS MM 10 Gig SC Conn - (100 pk.)	230.00
F1-5066AQ-100	FIS MM 10 Gig LC Conn - (100 pk.)	265.00



F1-3069-100



MTP12MM

MTP® CONNECTORS

US Conec manufactures durable MTP® brand connectors that provide quick connection for up to 72 optical fibers. Precision alignment is achieved with patented guide pins combined with the tightly controlled guide pin holes on US Conec's MT ferrules. Removable housings allow for quick change of gender, ferrule cleaning, interferometry or connector re-polishing.

PART #	DESCRIPTION	CABLE TYPE	PRICE
MTP-12MM	MTP Connector 12 Fiber Multimode OM1 Male Beige Housing	Ribbon/Oval	\$15.75
MTP-12MF	MTP Connector 12 Fiber Multimode OM1 Female Beige Housing	Ribbon/Oval	15.75
MTP-12SM	MTP Connector 12 Fiber Singlemode APC Male Green Housing	Ribbon/Oval	21.95
MTP-12SF	MTP Connector 12 Fiber Singlemode APC Female Green Housing	Ribbon/Oval	21.50
MTP-12MMRD	MTP Connector 12 Fiber Multimode Male OM3/4 Male Aqua Housing	3.0mm/Round	15.75
MTP-12MFRD	MTP Connector 12 Fiber Multimode Female OM3/4 Female Aqua Housing	3.0mm/Round	15.75
MTP-12SMRD	MTP Connector 12 Fiber Singlemode APC Male Green Housing	3.0mm/Round	21.95
MTP-12SFRD	MTP Connector 12 Fiber Singlemode APC Female Green Housing	3.0mm/Round	21.50
MTP-12MMBRD	MTP Connector 12 Fiber Multimode OM1 Male Beige Housing	3.0mm/Round	13.75
MTP-12MFBRD	MTP Connector 12 Fiber Multimode OM1 Female Beige Housing	3.0mm/Round	13.75
MTP-12SMFEOV	MTP Elite Connector 12 Fiber Singlemode APC Female Mustard Housing	Ribbon/Oval	29.25
MTP-12SMMEOV	MTP Elite Connector 12 Fiber Singlemode APC Male Mustard Housing	Ribbon/Oval	35.25
MTP-12MMMEOV	MTP Elite Connector 12 Fiber Multimode OM3/4 Male Aqua Housing	Ribbon/Oval	25.25
MTP-24MFEOV	MTP Elite Connector 24 Fiber Multimode OM3/4 Female Aqua Housing NEW	Ribbon/Oval	42.95
MTP-24MMEOV	MTP Elite Connector 24 Fiber Multimode OM3/4 Male Aqua Housing NEW	Ribbon/Oval	42.95
MTP-24SMOV	MTP Connector 24 Fiber Singlemode APC Male Green Housing NEW	Ribbon/Oval	39.95
MTP-24SFOV	MTP Connector 24 Fiber Singlemode APC Female Green Housing NEW	Ribbon/Oval	39.95

NOTE: Singlemode MTP Connectors are angled at 8° to improve performance (indicated by green housing)

SPECIFICATIONS

	MM MT Elite® Multimode MT Ferrule	Standard Multimode MT Ferrule	SM MT Elite® Singlemode MT Ferrule	Standard Singlemode MT Ferrule
Insertion Loss	0.1dB Typical (All Fibers) 0.35dB Maximum (Single Fiber) ^{2,3}	0.20dB Typical (All Fibers) 0.60dB Maximum (Single Fiber) ^{2,3}	0.10dB Typical (All Fibers) 0.35dB Maximum (Single Fiber) ¹	0.25dB Typical (All Fibers) 0.75dB Maximum (Single Fiber) ¹
Optical Return Loss	>20dB	>20dB	>60dB (8° Angle Polish)	>60dB (8° Angle Polish)



F1-MTRJFMMC

MT-RJ CONNECTORS

The MT-RJ duplex connector provides increased port density two times that of an SC. The single plastic ferrule houses two fibers utilizing a user-friendly RJ-45 connection system. The same size as a simplex SC connector, the MT-RJ is designed for backbone, local area networks and telecommunication systems.

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
FIS					
F1-MTRJFMMC	No Pins-MM	3.0mm	128µm	Plastic	\$2.20
F1-MTRJFSMC	No Pins-SM	3.0mm	128µm	Plastic	4.45
F1-MTRJMMMC	with Pins-MM	3.0mm	128µm	Plastic	3.60
F1-MTRJMSMC	with Pins-SM	3.0mm	128µm	Plastic	6.00



F1-50900

MU CONNECTORS

The MU connector is designed for high-density connections. This small single-fiber connector has a high level of performance, providing more than double the packaging density of the SC connector.

PART #	MFG	FERRULE SIZE	FERRULE	TYPICAL LOSS	PRICE
F1-50900	FIS	126µm	Zirconia	.2dB	\$4.30
F1-50201	FIS	125µm	Zirconia	.2dB	3.75

FIS BULK ADAPTERS

FIS multimode and singlemode ST, SC, LC and FC adapters bulk packaged in lots of 100 pieces. These adapters offer the best value in performance and cost savings.

PART #	DESCRIPTION	PRICE
F1-8102SS-100	FIS MM ST - (100 pk.)	\$78.00
F1-8200A-100	FIS SM ST - (100 pk.)	117.00
F1-8020-100	FIS MM LC Duplex - (100 pk.)	247.50
F1-8010-100	FIS SM LC Duplex - (100 pk.)	405.00
F1-8520-100	FIS SM FC Style 2 - (100 pk.)	300.00
F1-3800BC-100	FIS MM SC Beige - (100 pk.)	90.00
F1-3810BC-100	FIS SM SC Blue - (100 pk.)	157.00
F1-4800BC-100	FIS SM SC/APC Green - (100 pk.)	200.00
F1-8600ET-100	FIS MM SC Duplex - (100 pk.)	250.00



F1-3800BC-100

Other part numbers available upon request

SC CONNECTORS

The SC connector is a non-optical disconnect connector with a 2.5mm pre-radiused zirconia ferrule. Available in simplex and duplex styles, this connector features a push-pull connection design for quick patching of cables into rack or wall mounts. Utilize the reusable duplex holding clip to create duplex connections.

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
FIS					
F1-3066	Multimode	3mm	127µm	Zirconia	\$2.30
F1-306620	Multimode	2mm	127µm	Zirconia	2.30
F1-3066900	Multimode	900µm	127µm	Zirconia	2.30
F1-3061	Multimode	3mm	127µm	Stainless Alloy	2.95
F1-3069	Singlemode	3mm	126µm	Zirconia	2.95
F1-306920	Singlemode	2mm	126µm	Zirconia	2.95
F1-3069900	Singlemode	900µm	126µm	Zirconia	2.95
F1-3069APC	Singlemode APC	3mm	126µm	Zirconia	5.50
F1-3069900APC	Singlemode APC	900µm	126µm	Zirconia	5.50
F1-3069APC20	Singlemode APC	2mm	126µm	Zirconia	5.50
F1-3066AR	Multimode (Anaerobic)	3mm	125µm	Zirconia	3.25
F1-CLBK	Duplex Clip (Black for Multimode)				0.50
F1-CLBL	Duplex Clip (Blue for Singlemode)				0.50
F1-3066AQ	Multimode 10 Gig	3.0mm	127µm	Zirconia	2.95
F1-3066AQ20	Multimode 10 Gig	1.6/ 2.0mm	127µm	Zirconia	2.95
F1-3066AQ900	Multimode 10 Gig	900µm	127µm	Zirconia	2.95
3M™					
6306	Multimode	3mm	125µm	Zirconia	\$2.50
8306	Singlemode	3mm	126µm	Zirconia	3.25
8306SCAPC	Singlemode APC	3mm	126µm	Zirconia	5.95
8306SCAPC900	Singlemode APC	900µm	126µm	Zirconia	5.95
CCS					
95-100-48SP	Multimode	3mm	125.5µm	Zirconia	\$5.10
95-100-48SP2	Multimode	2mm	125.5µm	Zirconia	5.10
95-101-16SP	Multimode (Anaerobic)	3mm	125µm	Zirconia	5.50
SEIKOH GIKEN					
SSCPE3C1261A300G	Singlemode	3mm	126µm	Zirconia	\$3.25
SSCPNE871251B300G	Singlemode APC	3mm	125µm	Zirconia	5.95
MOLEX					
106063-0060	Multimode	3mm	125µm	Zirconia	\$4.25
106063-5000	Singlemode	3mm	126µm	Zirconia	7.25
106063-5500	Singlemode	900µm	126µm	Zirconia	7.25
106065-5000	Singlemode APC	3mm	126µm	Zirconia	14.25
106065-5500	Singlemode APC	900µm	126µm	Zirconia	14.25



F1-3066



8306



SSCPE3C1261A300G



106063-0060

FC CONNECTORS

FC connectors are specifically designed for telecommunication applications and provide non-optical disconnect performance. Designed with a threaded coupling for durable connections. The ferrule is PC finished to a pre-radius, which ensures low back reflection. Stainless alloy ferrules can be custom drilled to your specifications. All FIS FC connectors use narrow key (2.0mm).

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
FIS					
F1-2073	Multimode	3mm	127µm	Zirconia	\$3.75
F-1207320	Multimode	2mm	127µm	Zirconia	3.75
F1-2073900	Multimode	900µm	127µm	Zirconia	3.75
F1-2777	Multimode	3mm	140µm	Zirconia	4.45
F1-2771	Multimode	3mm	128µm	Stainless Alloy	4.45
F1-2772	Multimode	3mm	140µm	Stainless Alloy	4.45
F1-2774	Multimode	3mm	230µm	Stainless Alloy	4.45
F1-2070	Singlemode	3mm	126µm	Zirconia	4.25
F1-207020	Singlemode	2mm	126µm	Zirconia	4.25
F1-2070900	Singlemode	900µm	126µm	Zirconia	4.25
F1-2070APC	Singlemode APC	3mm	126µm	Zirconia	5.50
F1-2070APC20	Singlemode APC	2mm	126µm	Zirconia	5.50
F1-2070900APC	Singlemode APC	900µm	126µm	Zirconia	5.50
F1-2073AQ	Multimode 10 Gig	3mm	127µm	Zirconia	4.25
F1-2073AQ900	Multimode 10 Gig	900µm	127µm	Zirconia	4.25



F1-2073



F1-0066

ST CONNECTORS

The ST connector utilizes a bayonet twist-lock connection with 2.5mm ferrule; the ST connector features reliable and durable field installation. The design of the ST connector enables installers to crimp the back of the body directly onto the cable jacket and Kevlar®. This eliminates cable pull-away, ensuring a strong termination. Upon request, FIS ST connectors can be supplied without FIS markings. Stainless alloy ferrules can be custom drilled.

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
FIS					
F1-0066	Multimode	3mm	127µm	Zirconia	\$1.60
F1-006620	Multimode	2mm	127µm	Zirconia	1.60
F1-0066900BLK	Multimode	900µm	127µm	Zirconia	1.60
F1-0067	Multimode	3mm	140µm	Zirconia	2.95
F1-0069	Singlemode	3mm	126µm	Zirconia	2.30
F1-006920	Singlemode	2mm	126µm	Zirconia	2.30
F1-0069900	Singlemode	900µm	126µm	Zirconia	2.30
F1-0061	Multimode	3mm	127µm	Stainless Alloy	2.50
F1-006120	Multimode	2mm	127µm	Stainless Alloy	2.50
F1-0063	Multimode	3mm	140µm	Stainless Alloy	2.75
F1-0064	Multimode	3mm	230µm	Stainless Alloy	3.25
F1-0065	Plastic Fiber	3mm	1000µm	Stainless Alloy	3.25
F1-1066AR	Multimode (Anaerobic)	3mm	125µm	Zirconia	2.75
F1-0066AQ	Multimode 10 Gig	3mm	127µm	Zirconia	2.30
F1-0066AQ20	Multimode 10 Gig	2mm	127µm	Zirconia	2.30
F1-0066AQ900	Multimode 10 Gig	900µm	127µm	Zirconia	2.30

3M™

6105	Multimode	3mm	125µm	Zirconia	\$2.00
8106	Singlemode	3mm	126µm	Zirconia	2.85

CCS

95-100-44SP	Multimode	3mm	125.5µm	Zirconia	\$5.10
95-100-44SP2	Multimode	2mm	125.5µm	Zirconia	5.10
95-250-06SP	Singlemode	3mm	125.5µm	Composite	9.95

MOLEX

106010-0000	MM Long Boot with Plastic Housing	3mm	125µm	Zirconia	\$2.80
106010-0200	MM Short Boot with Plastic Housing	3mm	125µm	Zirconia	3.05
106012-0200	MM Short Boot with Metal Housing	3mm	125µm	Zirconia	3.45
106010-0500	MM Boot with Plastic Housing	900µm	125µm	Zirconia	3.05
106012-5000	SM with Metal Housing	3mm	126µm	Zirconia	8.35



6105



95-250-06SP



106010-0000

PART #	TYPE	BOOT SIZE	FERRULE SIZE	FERRULE	PRICE
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3M™

6202	Multimode with Plastic Housing	3mm	125µm	Zirconia	\$4.25
8203	Singlemode with Plastic Housing	3mm	126µm	Zirconia	4.75
8206FCAPC	Singlemode with Plastic Housing APC	3mm	126µm	Zirconia	5.95
8206FCAPC900	SM with Plastic Housing APC	900µm	126µm	Zirconia	6.75

CCS

95-100-10SP	Multimode	3mm	125µm	Zirconia	\$5.10
95-100-10SP2	Multimode	2mm	125.5µm	Zirconia	5.10

SEIKOH GIKEN

SAP8311260A300G	Singlemode	3mm	126µm	Zirconia	\$3.20
SNP8871261B3K2G	Singlemode APC	3mm	126µm	Zirconia	5.95

MOLEX

106053-3000	Multimode	3mm	125µm	Zirconia	\$9.15
106053-5000	Singlemode	3mm	126µm	Zirconia	9.50
106055-5000	Singlemode - Narrow Key APC	3mm	126µm	Zirconia	13.75
106055-5500	Singlemode - Narrow Key APC	900µm	126µm	Zirconia	13.75



6202



106053-3000

CUSTOM DRILLING SERVICES FROM FIS

FIS offers a fast turnaround on custom micro drilling services. FIS can accommodate almost any fiber size for special applications. We are capable of drilling FC and SC style stainless alloy connectors that range from 250µm to 900µm. ST and SMA style stainless alloy connectors can be drilled up to 1550µm. However we cannot drill to odd sizes or stainless steel ferrules.

When ordering drilled FIS stainless alloy connectors add \$1.50 to list price of any connector drilled up to 900µm and \$2.00 to any connector drilled from 900µm or larger. If a drill bit not listed is required add a \$50 drill charge fee and allow an additional two weeks.

Minimum Order Quantity - Ten connectors.

250µm - 490µm Hole Sizes:	
Hole Size Tolerance	+10µm / -4µm
Concentricity	15µm or less
500µm - 990µm Hole Sizes:	
Hole Size Tolerance	+20µm / -5µm
Concentricity	20µm or less
1000µm - 1550µm Hole Sizes:	
Hole Size Tolerance	+30µm / -10µm
Concentricity	25µm or less

There are many factors that can affect the performance of very small drill bits. Hole sizes below 250µm and above 900µm drilled in-house will be done on a "best effort" basis. However, we cannot guarantee the performance of these parts in your customer's application. FIS recommends that you first order a small sample batch of drilled parts to evaluate for your application.

250µm	450µm	650µm	920µm
260µm	460µm	660µm	930µm
270µm	470µm	670µm	970µm
280µm	480µm	680µm	1000µm
300µm	490µm	710µm	1010µm
310µm	500µm	730µm	1040µm
330µm	510µm	750µm	1080µm
340µm	520µm	770µm	1100µm
350µm	530µm	800µm	1200µm
360µm	540µm	810µm	1300µm
380µm	550µm	830µm	1370µm
400µm	570µm	840µm	1500µm
410µm	600µm	860µm	1550µm
420µm	610µm	880µm	Drill Sizes
430µm	630µm	900µm	
440µm	640µm	910µm	

SMA 905 AND 906 CONNECTORS AND MATING SLEEVES

The SMA 905 and 906 multimode connectors are available with stainless alloy. Ferrules and connectors are supplied with 3mm boots may be custom drilled. When installing 906 SMA's into 905 SMA mating sleeves, a provided 1/2 sleeve must be installed on the 906 ferrule.



PART #	TYPE	FIBER SIZE	FERRULE	TYPICAL LOSS	PRICE	PART #	TYPE	FIBER SIZE	FERRULE	TYPICAL LOSS	PRICE
905 F1-93336	MM	127µm	Stainless Alloy	.25dB	\$5.95	906 F1-9333	MM	127µm	Stainless Alloy	.25dB	\$6.75
F1-93336140	MM	140µm	Stainless Alloy	.25dB	6.75	F1-9333140	MM	140µm	Stainless Alloy	.25dB	7.00
F1-93336230	MM	230µm	Stainless Alloy	.25dB	6.75	F1-9333230	MM	230µm	Stainless Alloy	.25dB	6.75
						F1-933330			FIS SMA Adapter for 905 and 906		11.70



FDDI CONNECTORS

FDDI connectors combine low loss with positive side latch mating, polarization, keying and fiber strain relief. All connectors are multimode zirconia ferrules.

PART #	DESCRIPTION	TYPICAL LOSS	PRICE
106030-0200	FDDI for a 3mm Zipcord Cable	.3dB	\$20.00



BICONIC CONNECTORS

The Biconic connector with a polymer ferrule provides the best performance available in its class for multimode and singlemode applications. Call for Availability.

PART #	MFG	FIBER SIZE	TYPE	PRICE
SMBIC01	Subject to change	126µm	SM	\$50.00
MMBIC02	Subject to change	126µm	MM	50.00
F1-6647		Singlemode Biconic Adapter		25.35

Supplied with 3mm Boot

ESCON CONNECTORS

Escon describes a duplex connector using a free-floating ferrule structure and a positive latching mechanism. Uses standard ST polish disc and a special two-die crimper. Multimode only.

PART #	DESCRIPTION	TYPICAL LOSS	PRICE
106040-3200	Connector for 3mm Zipcord Cable	.13dB	\$22.00
106142-2400	Multimode Mating Sleeve		16.50



D4 CONNECTORS

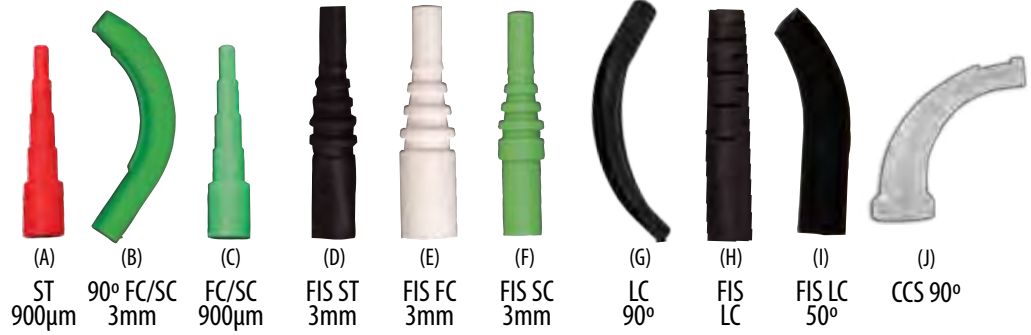
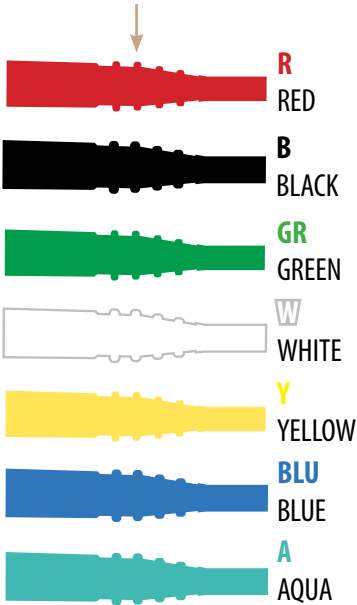
This non-optical disconnect D4 connector features threaded parts that reduce complexity and assembly time.

PART #	MFG	FIBER SIZE	TYPICAL LOSS	TYPE	PRICE
F1-4069C	Subject to change	126µm	.3dB	SM	\$9.65
F1-4069AD		D4 Adapter Phos. Bronze Sleeve			6.30

Supplied with 3mm Boot



1. Choose your style
2. Choose your color



STRAIN RELIEF BOOTS

Designed to be utilized on .128, .151, and .190 crimp sleeves. FIS boots are available in Red (R), Black (B), Green (GR), Blue (BLU), Aqua (A), White (W), and Yellow (Y). Replace X with abbreviation of color in parenthesis.

PART #	DESCRIPTION (See Strain Relief Boot style chart above)	ID	Length	Crimp Size	PRICE
667342900-25-X	FIS ST 900µm Boot (A) (25 pk.)	0.15	1.13"	0.128	\$6.25
CONN90-25-X	FIS SC and FC 3mm 90° Boot (B) (25 pk.)	0.20	1.40"	0.190	13.75
CONN107900-25-X	FIS SC and FC 900µm Boot (C) (25 pk.)	0.17	1.13"	0.179	6.25
667342-BC-25-X	FIS ST 3mm Boot (D) (25 pk.)	0.15	1.47"	0.128	6.25
6673422-BC-25-X	FIS ST 2mm Boot (25 pk.)	0.15	1.47"	0.128	6.25
CONN107BC-25-X	FIS FC 3mm Boot (E) (25 pk.)	0.20	1.25"	0.190	6.25
CONN1072-BC-25-X	FIS FC 2mm Boot (25 pk.)	0.20	1.25"	0.190	6.25
CONN205-25-X	FIS SC 3mm Boot (F) (25 pk.)	0.20	1.47"	0.190	6.25
F1-LC 90-BLK-25	FIS LC 90° 2mm Boot Black (G) (25 pk.)	0.137	1.44"	0.128	6.25
LCBOOTBL25	FIS LC 3mm Boot Black (H) (25 pk.)	0.137	1.10"	0.128	6.25
F1-LC45BL25	FIS LC 50° 2mm Boot Black (I) (25 pk.)	0.137	1.0"	0.128	6.25
F1-LC90M2590	FIS LC 90° 2mm Boot White (not shown) (25 pk.)	0.137	1.40"	0.128	6.25
F1-LC90GR25	FIS LC 90° 2mm Boot Green (not shown) (25 pk.)	0.137	1.40"	0.128	6.25
CONN205-XX-M20	FIS SC 2mm Boot (not shown) (25pk.)	0.20	1.47"	0.190	6.25
9540002BP	CCS Clip 90° for ST/SC/FC 3mm Boots (J)				1.40
9540004BPC	CCS Clip 90° for 2mm Boots				55¢



SPIRAL BOOT

The Spiral Cut Boot is designed for the times when you forget to put the boot on your cable before you terminated a connector. The unique spiral cut allows you to wrap the boot around the cable and then slide it up behind the connector. No need to cut off a good connector because of a forgotten boot. Boot is straight when relaxed.

PART #	DESCRIPTION	PRICE
SPIRALBOOT25	Spiral Cut 3mm Boot 25-Pack	\$12.95

FERRULE PROTECTION CAPS

FIS protection caps are designed to provide protection against various elements that could damage either the ferrule or fiber. The universal clear protection caps fit ST, FC and SC style 2.5mm ferrules.

PART #	DESCRIPTION	PRICE
CPCYGR-B	Green Dust Cap Covers FC Housing (A) (100 pk.)	\$25.00
CPCY-B	Yellow Dust Cap Covers FC Housing (B) (100 pk.)	25.00
CAPB-B	Universal Clear Cap for 2.5mm Ferrules (C) (100 pk.)	25.00
F1-0125	Universal Dust Cap for 1.25mm Ferrules (D) (100 pk.)	25.00
F1-0125SA-100	Universal Dust Cap for 1.25mm Ferrules with jacket strap Aqua (E) (100 pk.) NEW	25.00
F1-0125SB-100	Universal Dust Cap for 1.25mm Ferrules with jacket strap Black (100 pk.) NEW	25.00
F1-90010M	Universal Dust Cap for 2.5mm Ferrules with jacket strap (100 pk.)	25.00

ALIGNMENT SPLIT SLEEVES

Split sleeves are designed to align 2.5mm ferrules with precision. The Phosphor Bronze version provides the precision you require on multimode fiber applications. The split sleeves have an outside diameter of 3.2mm and a length of 11.4mm.

NOT AVAILABLE INDIVIDUALLY

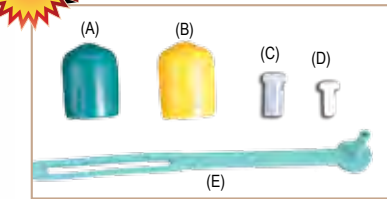
PART #	DESCRIPTION	PRICE
F1-8300SSC-25	Zirconia Split Sleeve (25 pk.)	\$20.00
F1-8300SS-25	Phosphor Bronze Split Sleeve (25 pk.)	7.50

FERRULES

FIS offers a variety of 2.5mm Zirconia and Stainless Alloy ferrules for multimode and singlemode applications. Zirconia ferrules have a standard PC radius. Stainless Alloy ferrules are suitable for many laboratory or other specialty applications.

NOT AVAILABLE INDIVIDUALLY

PART #	DESCRIPTION	LENGTH	PRICE
F1-TSMM127-25	127µm Zirconia Ferrule (Multimode) (25 pk.)	10.5mm	\$15.75
F1-SM126-25	126µm Zirconia Ferrule (Singlemode) (25 pk.)	10.5mm	17.50
F1-140K-25	140µm Zirconia Ferrule (Multimode) (25 pk.)	10.5mm	39.95
F1-0061F-25	125µm Stainless Alloy Ferrule (25 pk.)	12.7mm	39.25
F1-0063F-25	140µm Stainless Alloy Ferrule (25 pk.)	12.7mm	41.25
F1-0064F-25	230µm Stainless Alloy Ferrule (25 pk.)	12.7mm	41.25



FIS FIBER OPTIC ADAPTER KIT

The FIS fiber optic adapter kit provides installers with all the popular mating sleeves to test or plug in fiber optic cables. **Perfect for Installers.**

PART #	DESCRIPTION	PRICE
F1-ADPTKIT	FIS Adapter Kit (includes 24 adapters)	\$79.00

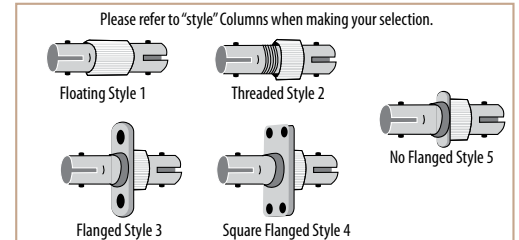
KIT CONTENTS (CONTAINS TWO OF EACH):

LC-LC, LC/APC-LC/APC, SC-SC, SC/APC-SC/APC, ST-ST, FC-FC, FC/APC-FC/APC, FC/APC-SC/APC, SC-FC, FC-ST, SC-ST, MU-MU



Fiber optic adapters, also referred to as mating sleeves, come in a variety of configurations to meet almost any application.

Standard fiber optic adapters are simplex, duplex and quad structure and are female-to-female type orientation. Use the chart to help in the selection of an adapter style for your application.



SC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
F1-3800NF	Multimode - Beige (No Flange)	5	Polymer	Phos. Bronze	\$1.00
F1-8350NF	Multimode - 10 Gig - Aqua (No Flange)	5	Polymer	Zirconia	1.50
F1-3810NF	Singlemode - Blue (No Flange)	5	Polymer	Zirconia	1.50
F1-4800NF	Singlemode APC - Green (No Flange)	5	Polymer	Zirconia	1.75
F1-8600NF	Duplex Multimode - Beige (No Flange)	5	Polymer	Phos. Bronze	1.95
F1-8650NF	Duplex Multimode - 10 Gig Aqua (No Flange)	5	Polymer	Zirconia	2.25
F1-8601NF	Duplex Singlemode - Blue (No Flange)	5	Polymer	Zirconia	2.25
F1-8701NF	Duplex Singlemode APC - Green (No Flange)	5	Polymer	Zirconia	2.50
F1-3800BC	Multimode - Beige	3	Polymer	Phos. Bronze	1.00
F1-8320	Multimode - Black	3	Polymer	Phos. Bronze	1.00
F1-8350	Multimode - 10 Gig - Aqua	3	Polymer	Phos. Bronze	1.75
F1-3810BC	Singlemode - Blue	3	Polymer	Zirconia	2.00
F1-4800BC	Singlemode APC - Green	3	Polymer	Zirconia	2.25
F1-8600ET	Duplex Multimode - Beige	3	Polymer	Phos. Bronze	2.75
F1-8620	Duplex Multimode - Black	3	Polymer	Phos. Bronze	2.75
F1-8650	Duplex Multimode - 10 Gig - Aqua	3	Polymer	Phos. Bronze	2.75
F1-8601	Duplex Singlemode - Blue	3	Polymer	Zirconia	3.50
F1-SCRD	Duplex Singlemode - Blue (No Flange)	5 with Shutter	Polymer	Zirconia	4.90
F1-8701	Duplex APC - Green	3	Polymer	Zirconia	3.75



LC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
F1-8000A	Multimode-Beige	1	Polymer	Phos. Bronze	\$1.50
F1-8005	Singlemode-Blue	1	Polymer	Zirconia	1.75
F1-8008	Singlemode - APC - Green	1	Polymer	Zirconia	2.00
F1-8030	Duplex Multimode-Beige	SC Footprint	Polymer	Phos. Bronze	2.95
F1-8050	Duplex MM - 10 Gig - Aqua	SC Footprint	Polymer	Phos. Bronze	3.00
F1-8035	Duplex Singlemode-Blue	SC Footprint	Polymer	Zirconia	3.75
F1-8018	Duplex APC - Green	SC Footprint	Polymer	Zirconia	4.25
F1-LCAD02R	Duplex Singlemode-Blue	1 with Shutter	Polymer	Zirconia	4.95
F1-8040	Quad Multimode-Beige	SC Dup ftpt	Polymer	Phos. Bronze	5.00
F1-8041	Quad Multimode - 10 Gig - Aqua	SC Dup ftpt	Polymer	Phos. Bronze	5.00
F1-8045	Quad Singlemode-Blue (No Flange)	5 - SC Dup ftpt	Polymer	Zirconia	5.25
F1-8020NF	Duplex Multimode - Beige (No Flange)	5	Polymer	Phos. Bronze	2.25
F1-8050NF	Duplex Multimode - 10 Gig Aqua (No Flange)	5	Polymer	Zirconia	2.75
F1-8010NF	Duplex Singlemode - Blue (No Flange)	5	Polymer	Zirconia	2.95
F1-8015NF	Duplex Singlemode APC - Green (No Flange)	5	Polymer	Zirconia	3.25





F1-8102SS



F1-8501



106102-0000



F1-5915

ST ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
FIS					
F1-8102SS	Multimode	2	Metal	Phos. Bronze	85¢
F1-8200A	Singlemode	2	Metal	Zirconia	\$1.30

3M™

6112	Multimode	2	Metal	Phos. Bronze	\$2.55
8119	Singlemode	2	Metal	Zirconia	2.75
6113	Duplex Multimode	2	Metal	Phos. Bronze	3.25
8113	Duplex Singlemode	2	Metal	Zirconia	3.95

MOLEX

106113-0000	Multimode - Black	2	Polymer	Polymer	\$1.45
106110-1000	Singlemode	2	Metal	Zirconia	3.95
106110-0000	SM / MM - Black	2	Polymer	Zirconia	3.50

MTP® ADAPTERS (Not Shown)

PART #	DESCRIPTION	PRICE
MTP-ADPT	MTP Adapter, Front Panel, Standard	\$5.95
MTP-9299	MTP Adapter, Screw Mount 30° angle	24.95
MTP-RFADPT	MTP Adapter, Reduced Flange, Standard	5.65

FC ADAPTERS

PART #	TYPE	STYLE	HOUSING	SLEEVE	PRICE
FIS					
F1-8501	Multimode	4	Metal	Phos. Bronze	\$1.95
F1-8510	Multimode	2	Metal	Phos. Bronze	2.50
F1-8520	SM / MM	2	Metal	Zirconia	3.35
F1-8521S	Singlemode - APC	4	Metal	Zirconia	3.75
F1-8525	Singlemode - APC	2	Metal	Zirconia	3.75

3M™

8211	Singlemode	2	Metal	Zirconia	\$4.25
8211APC	Singlemode - APC	2	Metal	Zirconia	4.75

MOLEX

106152-0100	SM / MM	4	Metal	Zirconia	\$6.25
106152-1000	SM / MM	2	Metal	Zirconia	5.75
106152-3000	Singlemode - APC	2	Metal	Zirconia	5.75

MU ADAPTERS

PART #	TYPE	HOUSING	SLEEVE	PRICE
F1-5910S	Singlemode	Simplex - Polymer	Zirconia	\$5.00
F1-5915	Singlemode	Duplex - Polymer	Zirconia	6.70

MT-RJ ADAPTERS

PART #	TYPE	STYLE	HOUSING	PRICE
F1-890M	SM / MM	SC Footprint	Polymer	\$1.65
106102-0000	SM / MM	3	Polymer	1.80

LASER SAFETY CAPS FOR MATING SLEEVES WITH METAL TILE

FIS has created a solution to the problem of laser light emitted from fiber optic bulkhead adapters. Our new Laser Safety Caps come with a warning symbol on each to visually alert people to potentially harmful exposure to laser light and cap has a built-in metal tile to stop laser light up to +18dBm. They are available for SC, LC, ST and FC style. Replace X with the color desired: BL=Black, BU=Blue, GR=Green, BE=Beige AQ=Aqua.

PART #	DESCRIPTION	PRICE
F1-BLSCST-X25	ST Bulkhead Laser Safety Cap - (25 pk.) (A)	\$19.95
F1-BLSCSC-X25	SC Bulkhead Laser Safety Cap - (25 pk.) (B)	19.95
F1-BLSCFC-X25	FC Bulkhead Laser Safety Cap - (25 pk.) (C)	19.95
F1-BLSCLC-X25	LC Bulkhead Laser Safety Cap - (25 pk.) (D)	19.95

CL-Clear	BU-Blue	BL-Black	SL-Slate	BE-Beige	GR-Green	AQ-Aqua
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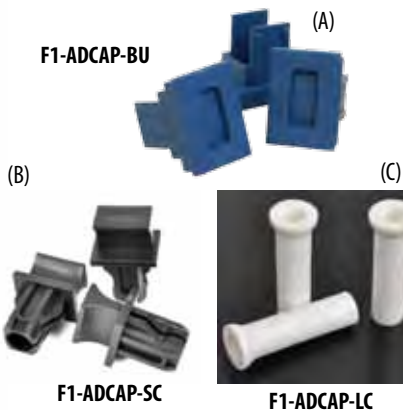
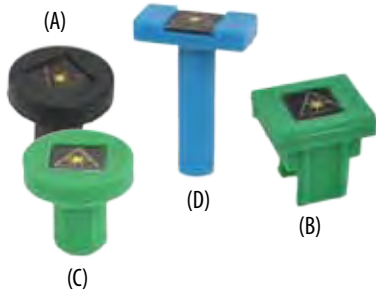
MATING SLEEVE ADAPTER CAPS

The dust caps for adapters are easy to misplace and now FIS makes them just as easy to replace. Available in multiple colors, see chart above. Replace XX with the color desired: BL=Black, BU=Blue, GR=Green, BE=Beige AQ=Aqua.

PART #	DESCRIPTION	PRICE
F1-ADCAP-100-BU	SC Mating Sleeve Adapter Dust Cap, Blue - 100 pk. A	\$19.00
F1-ADCAP-100-CL	SC Mating Sleeve Adapter Cap, Clear - 100pk	19.00
F1-ADCAP-SC	SC Mating Sleeve Click-in Style Adapter Cap, Black - 100pk. B	25.00
F1-ADCAP-LC	LC Mating Sleeve Round Head Adapter Cap, White - 100pk. C	25.00
F1-ADCAP-LCS-XX	LC Mating Sleeve Square Head with Laser Warning Sticker - 100pk D	25.00
F1-ADCAP-FCS-XX	FC Mating Sleeve Round Head with Laser Warning Sticker - 100pk	25.00
F1-ADCAP-STX-XX	ST Mating Sleeve Round Head with Laser Warning Sticker - 100pk E	25.00

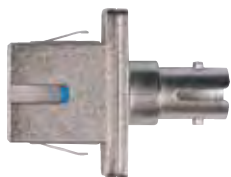
METAL CAP AND CHAINS

PART #	DESCRIPTION	PRICE
F1-9229-LC	Cap and Chain for LC Mating Sleeves	\$2.00
F1-9229-LC	Cap and Chain for SC Mating Sleeves	2.00
F1-9229-ST	Cap and Chain for ST Mating Sleeves	2.00
F1-9229-CH	Cap and Chain for FC Mating Sleeves	1.50





F1-4732



F1-19202



F1-29202



F1-34202



F1-2821CC



F1-2822CC



F1-SCLFF



F1-SCMUFF

FEMALE – FEMALE ADAPTERS

PART #	MFG	STYLE	HOUSING	SLEEVE	PRICE
F1-4732	FIS	SMA 905 - ST	Metal	Zirconia	\$25.00
F1-19202	FIS	SC - ST	Metal	Zirconia	2.95
F1-29202	FIS	FC-ST	Metal	Zirconia	3.25
106172-0000	Molex	FC-ST	Metal	Zirconia	5.85
F1-34202	FIS	SC-FC	Metal	Zirconia	3.75
F1-2821CC	FIS	FC/APC - SC/APC	Metal	Zirconia	4.75
F1-2822CC	FIS	FC/APC - SC/APC	Metal	Zirconia	4.75
106143-0300	Molex	ESCON-ST	Polymer	Polymer	10.25
106133-0600	Molex	FDDI-ST	Polymer	Polymer	7.75
F1-SCLFF	FIS	SC-LC	Polymer	Zirconia	23.95
F1-LCMUFF	FIS	LC-MU	Polymer	Zirconia	23.95
F1-SCMUFF	FIS	SC-MU	Polymer	Zirconia	35.00

MALE – FEMALE ADAPTERS

Note: When purchasing these adapters be aware of the fiber size indicated and match to your application.

PART #	DESCRIPTION	HOUSING	SLEEVE	PRICE
W1FSCA-SCU*	SC/APC Female to SC/UPC Male (Singlemode)	Metal	Zirconia	\$20.75
W1FSCU-SCA*	SC/UPC Female to SC/APC Male (Singlemode)	Metal	Zirconia	20.75

* Traditionally UPC and APC connectors have been incompatible to mate together due to the air-gap created between the two mating ferrules. This air-gap creates both undesirable high attenuation and high reflection in your network. The FIS M/F UPC-APC adapters allow UPC and APC fiber optic links to be mated together, adding flexibility to your network, while creating less than 1.0dB of Insertion Loss and -50dB of Return Loss.

F1-8705-FCFC	FC-FC (Singlemode)	Metal	Zirconia	\$25.00
F1-8705-SCSC	SC-SC (62.5/125µm)	Polymer	Zirconia	25.00
F1-8705-SCSCS	SC-SC (Singlemode)	Polymer	Zirconia	25.00
F1-8705-STST	ST-ST (62.5/125µm)	Polymer	Zirconia	20.00
F1-8705-SMA	SMA-ST (62.5/125µm)	Polymer	Zirconia	20.00
F1-8705-CSCST	SC-ST (62.5/125µm)	Polymer	Zirconia	20.00
F1-8705-CFCSCS	FC-SC (Singlemode)	Polymer	Zirconia	25.00
F1-8705-CSTFCS	ST-FC (Singlemode)	Polymer	Zirconia	25.00
F1-8705-CSTSCS	ST-SC (Singlemode)	Polymer	Zirconia	25.00
F1-8705-CSCFC	SC-FC (Singlemode)	Polymer	Zirconia	25.00
F1-8705-CSCSTS	SC-ST (Singlemode)	Polymer	Zirconia	25.00
	*50µm and 62.5µm available!			
F1-SCLCMF	SC-LC (Singlemode)	Polymer	Zirconia	28.95
F1-LCSCMF	LC-SC (Singlemode)	Polymer	Zirconia	28.95
F1-FCLCMF	FC-LC (Singlemode)	Polymer	Zirconia	35.00

BUFFERED FIBER ADAPTERS

A Buffered Fiber Adapter (bare fiber adapter) enables you to make a quick, temporary connection to a cleaved bare fiber without the need to connectorize. ST, FC, SC and SMA style adapters available. Not recommended for use with test equipment.

PART #	DESCRIPTION	PRICE
F1-8194	ST Buffered Fiber Adapter (For Use 900µm buffer)	\$39.95
F1-8294	FC Buffered Fiber Adapter (For Use 900µm buffer)	36.95
F1-8494	SC Buffered Fiber Adapter (For Use 900µm buffer)	36.95
F1-8394	SM 905 Buffered Fiber Adapter (For Use 900µm buffer)	45.00



W1FSCU-SCA



W1FSCA-SCU



F1-8705-CSTSCS



F1-LCSCMF



F1-8705-CSCFC



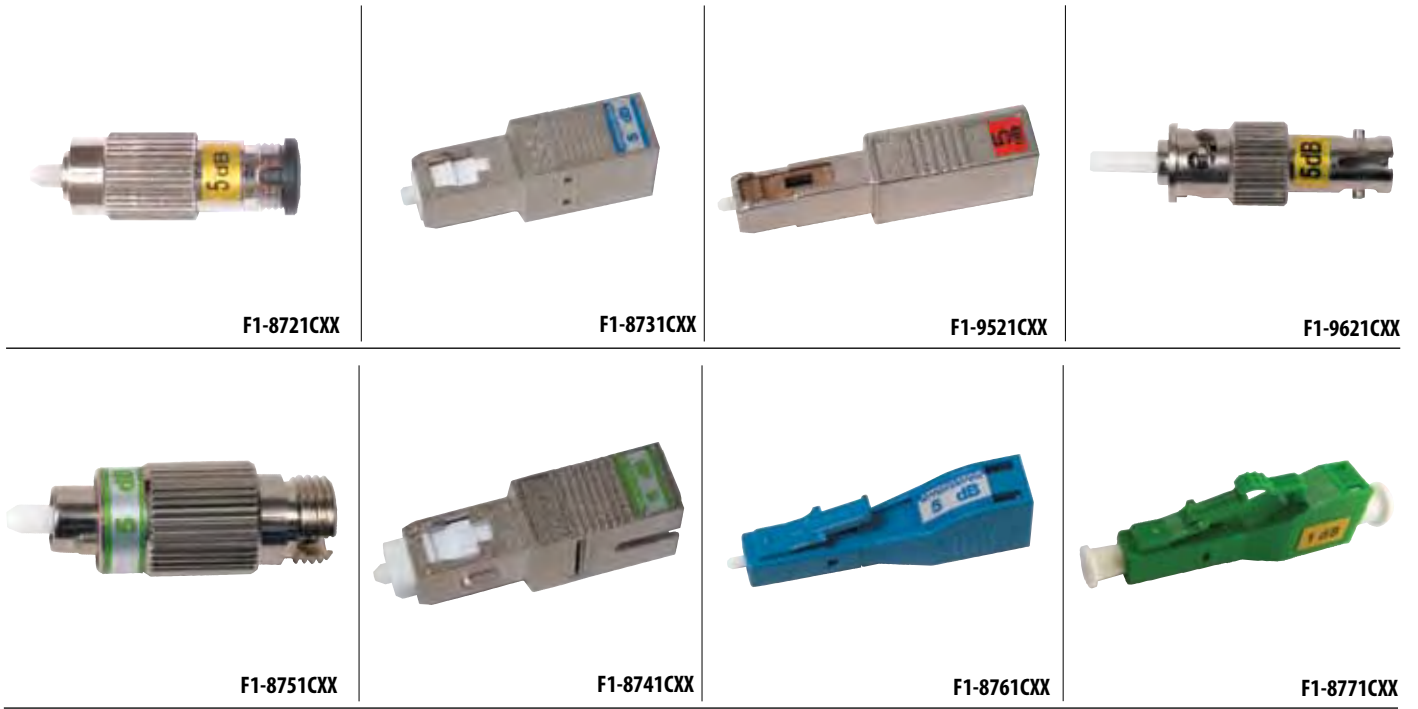
F1-8194



F1-8294



F1-8494



MALE-TO-FEMALE ATTENUATORS

FIS male-to-female attenuators contain doped fiber suitable for both 1310nm and 1550nm operation. Fixed attenuation values are available in 1dB increments from 1 to 20dB. FIS stocks standard 5, 10, 15, 20dB attenuation levels in most styles.

TO SPECIFY ATTENUATION LEVEL REPLACE "XX" with desired attenuation level ex. 01=1dB, 02=2dB, 03=3dB, 04=4dB, etc. (Attenuators up to 20dB in stock.)

PART #	DESCRIPTION	PRICE
F1-8721CXX	FC/UPC Male to Female Attenuator	\$10.25
F1-8751CXX	FC/APC Male Female Attenuator	11.95
F1-8731CXX	SC/UPC Male to Female Attenuator	10.25
F1-8741CXX	SC/APC Male Female Attenuator	11.95
F1-9621CXX	ST/UPC Male to Female Attenuator	10.25
F1-8761CXX	LC/UPC Male to Female Attenuator	12.95
F1-8771CXX	LC/APC Male to Female Attenuator	13.95
F1-9521CXX	MU/UPC Male to Female Attenuator	13.95

FIS BULKHEAD FEMALE-TO-FEMALE ATTENUATORS

FIS Bulkhead Attenuators utilize a wavelength sensitive neutral density filter to achieve attenuation. Available in 5, 10, 15 and 20dB values. Select from 1310nm or 1550nm options.

ST ATTENUATOR 1310nm

PART #	DESCRIPTION	PRICE
F1-8121S	FIS 5dB ST Attenuator for 1310nm	\$10.95
F1-8122S	FIS 10dB ST Attenuator for 1310nm	10.95
F1-8123S	FIS 15dB ST Attenuator for 1310nm	10.95
F1-8124S	FIS 20dB ST Attenuator for 1310nm	10.95



ST ATTENUATOR 1550nm

PART #	DESCRIPTION	PRICE
F1-8125S	FIS 5dB ST Attenuator for 1550nm	\$10.95
F1-8126S	FIS 10dB ST Attenuator for 1550nm	10.95
F1-8127S	FIS 15dB ST Attenuator for 1550nm	10.95
F1-8128S	FIS 20dB ST Attenuator for 1550nm	10.95

FC ATTENUATOR 1310nm

PART #	DESCRIPTION	PRICE
F1-8221S	FIS 5dB FC Attenuator for 1310nm	\$11.95
F1-8222S	FIS 10dB FC Attenuator for 1310nm	11.95
F1-8223S	FIS 15dB FC Attenuator for 1310nm	11.95
F1-8224S	FIS 20dB FC Attenuator for 1310nm	11.95



FC ATTENUATOR 1550nm

PART #	DESCRIPTION	PRICE
F1-8225S	FIS 5dB FC Attenuator for 1550nm	\$12.50
F1-8226S	FIS 10dB FC Attenuator for 1550nm	12.50
F1-8227S	FIS 15dB FC Attenuator for 1550nm	11.95
F1-8228S	FIS 20dB FC Attenuator for 1550nm	11.95

SC ATTENUATOR 1310nm

PART #	DESCRIPTION	PRICE
F1-8321S	FIS 5dB SC Attenuator for 1310nm	\$15.50
F1-8322S	FIS 10dB SC Attenuator for 1310nm	9.95
F1-8323S	FIS 15dB SC Attenuator for 1310nm	9.95
F1-8324S	FIS 20dB SC Attenuator for 1310nm	9.95



SC ATTENUATOR 1550nm

PART #	DESCRIPTION	PRICE
F1-8325S	FIS 5dB SC Attenuator for 1550nm	\$10.95
F1-8326S	FIS 10dB SC Attenuator for 1550nm	18.95
F1-8327S	FIS 15dB SC Attenuator for 1550nm	10.95
F1-8328S	FIS 20dB SC Attenuator for 1550nm	10.95

FIS CLIP-ON VARIABLE ATTENUATOR

The Clip-On Variable Attenuator is a completely passive device, which works by physical attenuation of a 3mm jacketed singlemode cable. May be used with smaller jacket sizes however, attenuation performance may vary. It can be attached at any point in a cable, providing attenuation levels from 0 to >47dB at 1550nm (0 to >21dB at 1310nm) and low back reflection. Good for hundreds of uses, and leaves no lasting effects on the cable. Dimensions: Length = 1 1/2", Diameter = 3/4"

PART #	DESCRIPTION	PRICE
F1-0045	Clip-On Variable Attenuator	\$49.00

FOR USE WITH 3mm
JACKETED CABLE



F1-0045

FIS 3-STEP ATTENUATORS

The FIS 3-Step Attenuator is a completely passive device and achieves attenuation by exceeding the recommended bend radius specifications of the fiber cable without introducing back-reflections. This unit is designed for 3mm jacket types and a wavelength of 1310nm, but can also be used with various jacket sizes and wavelengths with varying attenuation levels. Use any combination of the three loops to achieve desired attenuation levels.

PART #	DESCRIPTION	PRICE
F1-10007	3-Step Attenuator 2-7dB (1310nm Singlemode)	\$29.95
F1-10015	3-Step Attenuator 5-15dB (1310nm Singlemode)	29.95
F1-10020	3-Step Attenuator 5-20dB (1310nm Singlemode)	29.95



F1-10015

FIS IN-LINE FIXED ATTENUATORS

The FIS In-Line Fixed Attenuator is built to meet your low reflection attenuation requirements. Each cord is custom built to accommodate up to 10 meters of cable and the connector styles of your choice. The 5dB and 10dB versions hold a +/- .5dB tolerance with the 15dB and 20dB holding a 1dB tolerance. Please specify operating wavelength. The in-line attenuator provides negligible back reflection and is therefore recommended for use with UPC or APC style patch cable.

PART #	DESCRIPTION	PRICE
F1-ATS + 5dB or 10dB	In-line Attenuator	patch cable price + \$39.00
F1-ATS + 15dB or 20dB	In-line Attenuator	patch cable price + 49.00



VARIABLE ATTENUATORS

This Variable Attenuator uses collimator lens technology enabling the user to change attenuation through the twist of a top-mounted screw. Use this variable attenuator to simulate the loss in a fiber system or testing your system's dynamic range. A power meter and light source can be used to determine the fixed attenuation value your system requires. The attenuator has a 0.8dB typical insertion loss and is available in a 2 meter length and may be connectorized. A low back reflection style is prepared with ultra PC connectors maintaining the internal low back reflection characteristics. Attenuation range: 0.8dB to 60dB.

PART #	DESCRIPTION	PRICE
F1-0031-40C	SM Attenuator 8-9µm Core (2 Meter Unconnectorized) Return Loss <-40dB	\$170.00
F1-1033-35C	MM Attenuator 62.5µm Core (2 Meter Unconnectorized) Return Loss <-35dB	170.00
F1-0031-LBR	SM Low Back Reflection Attenuator with FC/UPC Connector Return Loss <-50dB	235.00



F1-0031-40C

AIR-GAP VARIABLE ATTENUATORS

The Air-Gap Variable Attenuator has a ceramic alignment sleeve that provides a low insertion loss of .15dB and can be used on both multimode and singlemode applications. Included tool provides ability to increase attenuation to desired "level". Device may replace mating sleeve at the patchpanel, enabling variable attenuation levels to be introduced to the system. Attenuation range is 0dB to 20dB.

PART #	DESCRIPTION	PRICE
F1-2250	Air-Gap Variable ST Attenuator	\$55.00
F1-2251	Air-Gap Variable FC Attenuator	55.00



F1-2250

FIS ST, SMA OR FDDI FIXED ATTENUATORS

The washer style attenuator is placed at the light source, spacing the mated connectors to cause attenuation. The attenuators of various thicknesses are not assigned specific dB values, several factors will dictate actual loss.

PART #	DESCRIPTION	PRICE
A450-FIS	ST Attenuators (Qty. 5) 1 Each Color	\$10.00 set
A40D-FIS	SMA Attenuators (Qty. 5) 1 Each Color	10.00 set
A450-FDDI	FDDI Attenuators (Qty. 10) 2 Each Color	20.00 set
A450-20	ST Attenuators (Qty. 10), State Color	17.95
A40D-20	SMA Attenuators (Qty. 10), State Color	17.95

TYPICAL ATTENUATION LEVELS (Installed At Light Source)

COLOR	850nm (dB)	1300nm (dB)
Red	2.5	7.4
Blue	3.6	9.1
Green	4.8	10.2
Gold	5.5	11.3
Silver	6	11.7





CANNED AIR

Before removing a fiber optic connector for inspection or cleaning, make sure the area around the connector is free from dust. The FIS Micro Duster includes an extension nozzle to provide a powerful blast of air to remove particles from areas that are otherwise inaccessible. Competitively priced. Shipping restrictions and fees may apply.

PART #	DESCRIPTION	PRICE
F1-1007S	FIS Canned Air (10oz.)	\$6.50

FIBER OPTIC DISPOSAL UNIT

A handy and safe solution for disposing of cleaved fiber ends. Perfect for on-site installers. Choose from three sizes to accommodate any tool kit and splice/connector station. The large unit has a snap on hinge cover, while the standard and mini snap containers have traditional slide tops for easy opening and closing.

PART #	DESCRIPTION	PRICE
F1-8328C	Large Fiber Optic Disposal Unit with Snap Top (3 1/2" W x 5 1/2" H)	\$5.95
F1-8327	Standard Fiber Optic Disposal Unit with Slide Top (1 7/8" W x 4 3/8" H)	3.95
F1-8326	Mini Fiber Optic Disposal Unit with Slide Top (1 5/8" W x 1 1/2" H)	2.95



FIS DISPENSING BOTTLE

PART #	DESCRIPTION	PRICE
F1-007PL	8 oz. Automatic Alcohol Dispensing Bottle (Plastic)	\$6.75
F1-007P	8 oz. Automatic Alcohol Dispensing Bottle (Amber Glass)	6.75



PIANO WIRE

A smart way to save a connector when a fiber breaks inside a ferrule during connectorization. Also an excellent tool to remove broken fiber from bare fiber adapters. Sticky colored tabs provided to hold wire.

PART #	DESCRIPTION	PRICE
F1-8265	FIS Piano Wire	\$4.95



OPTICAL COUPLANT

To reduce optical loss within fiber optic mechanical splices and connectors, apply optical couplant at the interface of the two mated fibers. This minimizes loss by reducing the difference in the index of refraction between the mated fibers. Available as liquid.

PART #	DESCRIPTION	PRICE
9006	Liquid Matching Couplant (.2 oz., Syringe)	\$14.50



MATCHING GEL

To reduce optical loss within fiber optic mechanical splices and connectors, apply optical couplant at the interface of the two mated fibers. This minimizes loss by reducing the difference in the index of refraction between the mated fibers.

PART #	DESCRIPTION	PRICE
F1-0001V	FIS Matching Gel (.4oz)	\$25.00

FIBER OPTIC CLEANING SOLUTION

This fast-acting cleaner can be used with dry fiber wipes or tissues to remove dirt and soils from optical fibers prior to termination and splicing or to clean the end of connector ferrules.

PART #	DESCRIPTION	PRICE
F1-6706	Fiber Optic Cleaning Solution - Air Ship Available	\$8.00

FIBER OPTIC SPLICE AND CONNECTOR CLEANER

Ideal for cleaning ferrules in connector bulkheads as well as individual fiber optic connectors. This fast-drying, optical-grade cleaning fluid can be used with wipes or cleaning sticks for wet/dry cleaning without chemical residue. Three-way dispenser enables you to select spray mode, dampening mode or wetting mode. Travel safe, non-flammable, non-regulated, and non-hazardous. No hazmat fees!

PART #	DESCRIPTION	PRICE
POC03M	Sticklers Splice and Connector Cleaner (3oz.)	\$15.00
FPF	MicroCare Optical Fiber Prep Cleaner (3oz.)	15.00
FCC2	Microcare Opical Fiber Connector Cleaner (3oz.)	15.00



3M NOVEC™ PERFORMANCE CLEANER

3M Novec contact cleaner is a non-flammable, high performance cleaner/degreaser used to remove contamination from fiber optic connectors. Non-ozone depleting, free of nPB, HFC's and HAPS and wide margin of safety make Novec a great choice for optical and electrical cleaning. **Ground shipping required.**

PART #	DESCRIPTION	PRICE
F1-332911	3M Novec™ Contact Cleaner	\$18.75



ISOPROPYL ALCOHOL PRODUCTS

This 99% reagent grade isopropyl is used in cleaning fiber or connector end faces for better transmission performance. Also offered are pre-filled foam swabs and 4 oz. dispensing bottles available in glass or plastic. **Ground shipping only. Hazmat fees may apply.**

PART #	DESCRIPTION	PRICE
F1-0068	1 Case of (6) 4 oz. Canned Alcohol	\$22.95
F1-0007SP	4 oz. Alcohol Bottle with Spray Top	4.65
F1-0007	1 Case of (6) 4 oz. Alcohol Squeeze Bottles	12.75
F1-000728	Bottled Alcohol (28 oz.)	6.95
F1-1007GA	1 Case Alcohol (4 gallons per case)	85.00



ITW CHEMTRONICS CLEANING SOLUTIONS

PART #	DESCRIPTION	PRICE
F1-ES810	Electro-Wash® 5 oz. Aerosol Can (PX) (Ground shipping required)	\$10.95
F1-ES110	Electro-Wash® 1 Gallon Bottle (PX) (Ground shipping required) (Not Pictured)	67.95
F1-ES1210	Electro-Wash® 12.5 oz. Aerosol Can (PX) (Ground shipping required) (Not Pictured)	20.25
F1-ES1607	Electro-Wash® 12 oz. Aerosol Can (NXO) (Ground shipping required) (Not Pictured)	47.75
F1-ES107	Electro-Wash® 1 Gallon Bottle (NXO) (Ground shipping required) (Not Pictured)	629.95
F1-MXCP	Electro-Wash® MX Cleaning Pen	9.35



FIBER-CLEAN® TOWELETTES

Remove Icky Pic and water blocking compounds with Fiber-Clean® Towelettes. Each pre-moistened tissue enables installers to clean and prepare optical fibers for connectorization and splicing. There are 45 tissues in each Fiber-Clean® "pop-up" Dispenser. **Ground shipping required.**

PART #	DESCRIPTION	PRICE
FC451	Fiber-Clean® Towelettes	\$21.95



POLYWATER SQUEEKYKLEEN™

No follow-up with alcohol required to get fibers squeaky clean and separated when prepping for splicing. SqueekyKleen™ is less harsh on hands and reduces chemical odors and vapor concentrations to a minimum in splice trailers and vaults. SqueekyKleen™ helps keep splice equipment clean of contamination for better fiber alignment and splice quality. Safe on acrylate and Mylar®.

PART #	DESCRIPTION	PRICE
TC-16LF	Telcom Cleaner with Flip Top (6 oz.)	\$12.35
TC-35LF	Telcom Cleaner with Flip Top (1 qt)	15.30
TC-128	Telcom Cleaner (1 gallon)	48.50



PT TECH D'GEL SOLVENTS

D'Gel Cable and Tool Cleaner is a full strength solvent specifically developed for removing cable gels, blocking compounds, Icky Pic, and C-cement. It also removes grease, tar, oil, wax, resin and gum from copper and fiber optic cable. It works equally well on painted surfaces and machine equipment. D'Gel does not contain TCE, HCFC's or methylene chloride.

PART #	DESCRIPTION	PRICE
F1-1011	12 Pack Box of Premoistened Tissues	\$27.25
F1-1091G	1 Gallon Jug	46.50
F1-1091S	32 oz. Spray Bottle	18.95





PRE-MOISTENED ALCOHOL WIPES

Fast evaporating alcohol pre-moistened wipes can be used on optical fiber to remove dirt, dust and oils. Contains: Isopropanol.

PART #	DESCRIPTION	PRICE
F1-1004	FIS Pre-Moistened Alcohol Wipes (50 pk.) - <i>Hazmat Fees May Apply.</i>	\$9.95



PRE-MOISTENED DEGREASER WIPES (ICKY-PIC CLEANER)

FIS new Icky-Clean wipes can be used with outside plant, optical or copper cables. Utilize to remove Icky-Pic or gels from cables prior to splicing or termination. Great to clean up tools as well.

PART #	DESCRIPTION	PRICE
F1-1010	FIS Pre-Moistened Degreaser Wipes (12 pk.)	\$10.50
F1-1010-100	FIS Pre-Moistened Degreaser Wipes (100 pk.)	80.00



POLYWATER SQUEEKYKLEEN™ (ICKY-PIC CLEANER)

New SqueekyKleen™ cleans and fans fiber in two wipes without alcohol. SqueekyKleen™ is less harsh on hands, reduces chemical odors and vapor concentrations to a minimum in splice trailers and vaults. Unique formulation and specially designed high-performance towelettes work to remove pik from the entire surface of loose-tube or ribbon fibers, leaving no residue. Safe on acrylate and Mylar®.

PART #	DESCRIPTION	PRICE
F1-TC1	Telecom Cleaner-Saturated Wipe (12 pk.)	\$16.95



POLYWATER HYDRASOL® SOLVENTS (ICKY-PIC CLEANER)

HydraSol® is a water-based solvent cleaner that is amazingly effective at dissolving and removing cable filling greases (Icky Pic). This economical product easily rinses off hands and tools. Our tear-resistant, presoaked towelette comes in an easy-open foil pack and is especially effective for smaller cleaning jobs and fiber optic splicing.

PART #	DESCRIPTION	PRICE
F1-1091T	HydraSol® Premoistened Tissues (12 pk.)	\$15.00
F1-1091GP	HydraSol® 1 Gallon Jug	28.95



F1-CP421



F1-1003



CP400

ITW CHEMTRONICS DE-GREASER WIPES

PART #	DESCRIPTION	PRICE
F1-CP421	Electro-Wash® Wipes (MX) (25 individual wipes per box)	\$47.75

ITW CHEMTRONICS OPTIC PREP WIPES

PART #	DESCRIPTION	PRICE
F1-1003	Optic Prep Tissue Pack Box (50pk)	\$23.95
CP400	Pre-Saturated Cleaning Wipe - Lint Free	23.95



S1P100P

ITW CHEMTRONICS OPTIC PREP WIPES

PART #	DESCRIPTION	PRICE
S1P100P	Pre-Saturated Wipes (Ground shipping required), <i>Hazmat Fees May Apply.</i>	\$23.95

POLYWATER ANHYDROUS ALCOHOL

Type FO™ is great for cleaning glass fiber or connector end faces for better light transmission performance. Type FO™ quickly removes dust, oils, and contaminants, while leaving no residue. The anhydrous alcohol in FO™ has essentially no water content. Type FO™ is available in a convenient pre-saturated towelette. The towels are durable and non-linting. Pre-saturated wipes are a convenient option for field use. The package limits vapor exposure and eliminates spill hazards. There is no need to transport bulk quantities of flammable alcohol.

Hazmat fees may apply.

PART #	DESCRIPTION	PRICE
FO-1	Type FO™ Alcohol Prep Wipe (50 pk.)	\$46.95
FO-16	Type FO™ 16-oz Alcohol Fiber Cleaner - <i>Hazmat fees may apply.</i>	9.45



FIS FIBER OPTIC WIPES

The FIS low lint tissues can be used dry or with cleaning solvents to clean ferrule endfaces or prepare fibers for termination and/or splicing.

PART #	DESCRIPTION	PRICE
F1-6705	Low Lint Wipes (280 wipes per box)	\$1.50
F1-6705C	Case of (60 Boxes)	90.00

F1-6705



FIS FIBER OPTIC 4"x4" NON-WOVEN WIPES

Non-Woven cloth wipes can be used alone or with alcohol or solvents. Provides superior cleaning of fiber optic connector ferrules without risk of scratching or lint residue.

PART #	DESCRIPTION	PRICE
F1-6702	Non-Woven Dry Wipes, 100 per pack, 4" x 4"	\$3.20
F1-6704	Non-Woven Dry Wipes, 1,200 per pack, 4" x 4"	25.00

F1-6702



KIM WIPES

Kim Wipes are the standard for use alone or with alcohol or solvents. Kim Wipes provide superior cleaning of fiber optic connector ferrules without risk of scratching. 280 wipes per box.

PART #	DESCRIPTION	PRICE 1-11	PRICE 12+
34-155	Individual box (4.4" x 8.4")	\$1.95	\$1.85
34-155C	Case (60 per case)	117.00	110.00
34-256C	Large Sheet Kim Wipes - 15 Boxes per case (14.7" x 16.6")	155.00	145.00

34-155



CLEANWIPES

High purity CleanWipes™ are lint free fabric wipes engineered for optical applications. Excellent for wet/dry cleaning of optical fiber, connector end faces, lenses, mirrors, LCD displays and test equipment. The mini tub keeps the wipes clean and portable, without the expense of cartridge-style packaging. 90 sheets.

PART #	DESCRIPTION	PRICE
WFW	CleanWipes™	\$8.00

WFW



KIMBERLY CLARK WYPALL TOWELS

For wiping small parts or reaching tight spaces, you can't beat WYPALL® Detail Wipers. Unlike rags and shop towels, this small format wipe is specifically designed for detail work. Plus it delivers the durability, absorbency and convenience you need for those small but important tasks.

PART #	DESCRIPTION	PRICE
05930	WypAll Towels - X80	\$10.50
12890	WypAll Towels - X90 - Highest Performing	13.60

12890



05930



KIMBERLY CLARK WATERLESS CLEANING WIPES

Heavy duty hand cleaning wipes. Pre-moistened wipes with a heavy-duty waterless cleanser. Gets hands clean in the same place they got dirty.

PART #	DESCRIPTION	PRICE
58310	Dispenser with 50 Ct Cleaning Wipes	\$9.50
91371	Dispenser 75 Ct with 50 Ct Cleaning Wipes	10.50
91367	75 Ct Refill for 91371 Bucket Dispenser	9.25

58310

91371



POLYWATER GRIME-AWAY™

Grime-Away™ wipes are heavy-duty towelettes pre-moistened with a multi-purpose cleaning solution. Grime-Away™ moisturizes and softens hands while cleaning tools and surfaces. Grime-Away™ towels feature a textured side to quickly remove greases, dirt, and grime. They also feature a soft side to be gentler on skin.

PART #	DESCRIPTION	PRICE
HTC-D72	Polywater Grime-Away	\$18.25

HTC-D72



PREMIER HAND CLEANERS

Premier hand cleaner towels remove lcky-pic, grease, oil, paint and more from hands, tools and equipment. 72 towels per bucket. **Ground shipping required.**

PART #	DESCRIPTION	PRICE
7333157500	Premier Hand Cleaners	\$15.00

7333157500



HAND CLEANER TOWELS

When working with optical fiber, it is good practice to keep hands clean to ensure they are free of contaminants. However, soap and water are not always available on the jobsite. SCRUBS pre-moistened towels provide the answer, removing even hard to clean industrial soils and grease without water. Pleasant citrus fragrance and gentle on skin.

PART #	DESCRIPTION	PRICE
42272	Hand Cleaner Towels	\$16.50

42272





F1-6712

FIS FIBER SWIPE500

This unique handheld connector ferrule end face cleaner removes dust, dirt and contaminants prior to mating a fiber optic connection. The fiber optic cleaner fits well in the technician's hand with a convenient trigger that automatically opens the top cleaning window to expose a single microfiber cleaning slot. Simply swipe the ferrule end-face with light pressure against the microfiber with the directional arrow and then release the trigger.

PART #	DESCRIPTION	PRICE
F1-6712	FIS Fiber Swipe500	\$39.95
F1-6713	Replacement Reel	15.00



F1-7020C

FIS CONNECTOR CLEANER

Choose the FIS Hand Held Connector Cleaner as an alternative to alcohol or solvent and wipes. The cartridge offers lint-free, clean room grade cleaning media which effectively removes dirt, dust, oil, grease and debris from connector end faces. A new resilient rubber pad beneath the cleaning surface prevents scratching, and a sliding cover protects the cleaning media from contamination when not in use. Reel refills available.

PART #	DESCRIPTION	PRICE
F1-7020C	FIS Connector Cleaner Universal (400 cleans)	\$15.00
F1-7021C	FIS Cleaning Media Replacement Reel (20 ft.)	4.95



F1-7111

FIS CONNECTOR CLEANER WITHOUT RETRACTABLE COVER

PART #	DESCRIPTION	PRICE
F1-7111	FIS Connector Cleaner Universal (400 cleans)	\$16.50
F1-7112	Replacement Reel for F17111 (10ft.)	4.35



F1-6270S

CLETOP CLEANING PRODUCTS

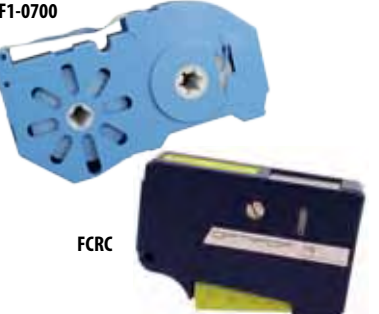
PART #	DESCRIPTION	PRICE
F1-6270	Cletop Connector Cleaner - SC, FC, ST, E2000 (Replacement Blue Tape F1-6271)	\$100.00
F1-6270MTRJ	Cletop MTRJ Male Cassette with White Tape (Replacement White Tape F1-6277)	115.00
F1-6270MT	Cletop MTP/MPO Male Cassette with White Tape (Replacement White Tape F1-6277)	115.00
F1-6210MF	Cletop MTRJ/MTP Female Cassette with White Tape (LC, MU also) (Replacement White Tape F1-6277)	110.00
F1-6270S	Cletop-S Connector Cleaner (A) with SC, FC, ST, E2000 (F1-0700)	95.00
F1-6270SMT	Cletop-S Connector Cleaner for LC, MU, Female MTP and MT-RJ (White Tape F1-0701)	95.00
F1-6271	Cletop Woven Film Replacement Reel Blue Tape	28.95
F1-6277	Cletop Woven Film Replacement Reel White Tape	28.95
F1-0700	Cletop-S Tape Cartridge Blue Tape (B)	28.95
F1-0701	Cletop-S Tape Cartridge White Tape	28.95



F1-6270

Note:

The Blue Tape is the original color tape. It was used on connectors with 2.5mm diameter ferrules such as the FC, ST, and SC. With the introduction of the smaller 1.25mm diameter ferrules such as used in the LC connector and multifiber connectors such as the MPX, there was some concern the smaller geometry connectors might "snag" on the somewhat looser weave of the Blue Tape. Therefore, a smoother White Tape was developed. Over time, with very few exceptions, the looser weave of the Blue Tape turned out to not be a problem for the smaller geometry ferrules. Currently, the selection of Blue or White Tape is primarily user preference.



F1-0700

OPTIPOP CLEANING PRODUCTS

PART #	DESCRIPTION	PRICE
FCRC	Optipop Fiber Optic Connector Cleaner (25 ft.)	\$70.00
FCRR	Optipop Cassette Refill	25.00
FCRCMTP	Optipop MTP/MPO Male Fiber Optic Connector Cleaner	70.00
FCRCMTRJ	Optipop MTRJ Male Fiber Optic Connector Cleaner	70.00
F1-6367	Card Cleaner (Includes 10 sheets)	30.00
F1-6368	Card Cleaner Refill (10 Sheets)	17.95



QBE

PQBE

CHEMTRONICS QBE®

PART #	DESCRIPTION	PRICE
QBE	QBE® Lint Free Cleaning Wipes	\$40.00
PQBE	Pocket QBE® Lint Free Cleaning Wipes	40.00



WCS800

WCS100

STICKLERS CLEANING BOX

Perfectly packaged for factories making jumpers and patch cords, this tool is designed for high-speed, high-volume production. Featuring a high-modulus fabric that will not lint, tear, or shred and allows for 3,200+ cleanings per roll for the large box and 400+ cleanings per roll for the small box.

PART #	DESCRIPTION	PRICE
WCS800	Sticklers Large Cleaning Box	\$95.00
WCS100	Sticklers Small Cleaning Box	59.00

FIS ROTOSWIPE

The FIS Rotoswipe ferrule cleaner is convenient for cleaning connector endfaces from inside bulkheads or mating sleeves without removing connector from the back panel. Simply choose from the 2.5 or 1.25mm ferrule version, insert into the mating sleeve until cleaning tip with fabric gently touches the ferrule endface, then turn the gray rotator dial 2-3 clicks clockwise. Inspect for cleanliness if desired with a video microscope. You can utilize this cleaner for patch cable endfaces as well as, with use of female mating sleeves for correct gender type.

PART #	DESCRIPTION	PRICE
F1-6710	FIS 2.5mm ROTOSWIPE Cleaner	\$39.95
F1-6711	FIS 1.25mm ROTOSWIPE LC Cleaner	39.95

F1-6710



F1-6711



IBC™ BRAND CLEANING TOOLS SERIES

The US Conec IBC™ Brand Cleaners are mechanical cleaning tools designed to clean connectors residing in an adapter or faceplate and unmated connectors. The IBC™ Brand Cleaning tools use a novel dry cleaning strand to gently sweep and lift away dust and residues from the connector end face.

FEATURES

- Audible “click” to alert the operator when tool is fully engaged
- Over 525+ engagements per unit
- Dry cleaning strand eliminates the need for solvents to be effective
- Impact resistant to survive drops over 1.5M

PART #	DESCRIPTION	PRICE
9392	IBC™ Cleaner SC (SC,ST, FC and E2000)	\$60.75
9393	IBC™ Cleaner LC (LC, MU) - pictured	60.75
12910	IBC™ Cleaner H-125 (1.25mm Harsh Environment Connectors)	72.00
12926	IBC™ M20 Cleaner SMTPE 304M (2mm Harsh Environment Connectors)	72.00
13310	IBC™ Cleaner M250 for TFOCA II® (2.5mm Connector Systems) - pictured	72.00
13964	IBC™ Mini-Clean 2.5mm (SC, ST, FC, E2000 - with key chain) - pictured	65.00
13965	IBC™ Mini-Clean 1.25mm (LC, MU - with keychain) - pictured	65.00
14303	IBC™ Brand Cleaner LC Duplex - pictured	87.50



AFL ONE-CLICK CLEANER

The One-Click Cleaner is an easy-to-use option for cleaning connectors in adapters. Simply insert the One-Click Cleaner into an adapter and push until an audible “click” is heard. The One-Click Cleaner uses the mechanical push action to advance an optical grade cleaning tape while the cleaning tip is rotated to ensure the fiber end-face is effectively, but gently, cleaned. The One-Click Cleaner is a must-have for field technicians. Small enough to fit in a shirt pocket and a great addition to cleaning kits.

PART #	DESCRIPTION	PRICE
85003MZ	One-Click Cleaner MPO/MTP®	\$79.25
85001MZ	SC, ST, FC 2.5mm ferrules	60.75
85002MZ	LC/MU 1.25mm ferrules	60.75



MTP/MPO IBC™ BRAND CLEANER

The MTP IBC™ (In Bulkhead Cleaner) is the first dry cloth cleaner specifically designed to clean the MTP/MPO while inside of an adapter, face-plate, or bulkhead. The unique design enables cleaning of either male (with pins) or female (without pins) MT ferrules. EASY PUSH STYLE WITH AUDIBLE CLICK.

PART #	DESCRIPTION	PRICE
7104	MTP/MPO Bulkhead Cleaner	\$75.00



FERRULE MATE™

Wouldn't it be great if you could limit your connector cleaning supplies to one versatile tool? You can, with Ferrule Mate™. The device cleans recessed fiber optic adapters as well as individual connectors. With the push of a button, the tool forwards and rotates the cleaning cloth. Cloth provides approximately 350 swipes, with a cost as low as 18 cents per cleaning. Use the SFM-250 for SC, FC, and ST. Use the SFM-125 for MU and LC.

PART #	DESCRIPTION	PRICE
SFM-250	Ferrule Mate™ 2.5mm Ferrules	\$62.50
SFM-125	Ferrule Mate™ 1.25mm Ferrules	62.50



FERRULEPRO™

FerrulePro™ is the world's first fully automated benchtop fiber connector cleaner for laboratory and cable production environments. FerrulePro™ automates the final cleaning of all types of terminated fiber products, a critical task where performance once depended largely on the production line worker's skill. Now, fiber connectors can be cleaned in 3 seconds cycle - eliminating the need for re-cleaning after post production inspection.

PART #	DESCRIPTION	PRICE
SPR1	Seikoh Giken FerrulePro™	\$1,695.00
SPRP10K	Seikoh Giken FerrulePro™ Standard Cassette Replacement	115.00





F1-51005



F1-25184



F1-25123



F1-0005



F1-25LCMTPB



F1-38542F



F1-51125F

MCC-S25



MCC-S12



MCC-VS

F1-0401



F1-6364



F1-0106

F1-0006



FIS ADHESIVE TIP DEBRIS REMOVAL SWAB

This swab has an adhesive tip for gathering fiber shards within work area or cleaver mechanism.

PART #	DESCRIPTION	PRICE
F1-51005	Debris Removal Swab - with Adhesive (5 pack)	\$3.50
F1-5100100	Debris Removal Swab - with Adhesive (100 pack)	40.00

FIS WRAPPED SWABS - 2.5mm and 1.25mm

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION	PRICE
F1-25184	2.5mm Wrapped Swabs (5pk)	\$3.50
F1-25183	2.5mm Wrapped Swabs (100pk)	40.00
F1-25123	1.25mm Wrapped Swabs (5pk)	3.50
F1-25123B	1.25mm Wrapped Swabs (100 pk)	40.00

FIS MINI-FOAM TIP SWABS - 2.5mm

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION	PRICE
F1-0005	2.5mm Mini Foam Swabs (50 pk)	\$10.50

FIS MTP CONNECTOR ENDFACE CLEANING SWAB

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION	PRICE
F1-25LCMTPB	MTP Chamois Swab (25 per tube)	\$15.75

FIS FUSION SPLICER V-GROOVE CLEANING SWAB

PART #	DESCRIPTION	PRICE
F1-38542F	V-Groove Cleaning Swab (50 per tube)	\$14.95

FIS FUSION SPLICER LENS CLEANING SWAB

PART #	DESCRIPTION	PRICE
F1-51125F	Fusion Splice Lens Cleaning Swab (15 per tube)	\$14.50

CONNECTOR CLEANING STICKS

MicroCare cleaning sticks use a fibrous sintered polymer tip that is molded, not hand wound. These cleaning sticks deliver fast and consistent cleaning, even inside alignment sleeves. Compatible with a wide variety of solvents on today's optical market. 50 sticks per clamshell.

PART #	DESCRIPTION	PRICE
MCC-S25	2.5mm Clamshell (50 pk)	\$29.75
MCC-S12	1.25mm Clamshell (50 pk)	29.75
MCC-VS	Combo Pack (20) 2.5, (10) 1.25mm and (20) Military Termini	29.75

CLETOP CLEANING SWABS

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION	PRICE
F1-0401	Cletop Stick 1.25mm (5 pk)	\$5.95
F1-0400	Cletop Stick 2.5mm (5 pk)	5.95
F1-0402	Cletop Stick 2.0mm MIL-AERO Application (5 pk)	5.95
F1-0403	Cletop 2 Sided Stick (2.0mm and 2.5) (5 pk)	11.25

OPTIPOP CLEANING SWABS

INTENDED FOR FERRULE END-FACE OR ALIGNMENT SLEEVE CLEANING

PART #	DESCRIPTION	PRICE
F1-636510P	Optipop Stick Cleaner 1.25mm (10 pk)	\$7.00
F1-636610P	Optipop Stick Cleaner 2.5mm (10 pk)	7.00
F1-636310	Optipop Pipe Cleaner 1.25mm (10 pk)	10.25
F1-6364	Optipop Pipe Cleaner 2.5mm (5 pk)	5.35

BI-FURCATED ALCOHOL SWABS

Pre-moistened alcohol foam swabs are convenient for cleaning optical fibers. Ground shipping required.

PART #	DESCRIPTION	PRICE
F1-0106	Alcohol Swabs (10 pk)	\$11.30

FIS GENERAL PURPOSE COTTON SWABS

PART #	DESCRIPTION	PRICE
F1-0006	General Purpose Cotton Swabs, 1 Bag (100 pk)	3.50



F1-6714



F1-0053FSMINI



F1-0053CKM



FIS CLEANING KITS

PART #	DESCRIPTION	PRICE
F1-6714	Fiber Optic Cleaning Station, Standard Kit (Wall Mountable)	\$160.00
F1-6714MPO	Fiber Optic Cleaning Station, Standard Kit with MPO/MTP cleaning tool (Wall Mountable)	230.00
F1-0053FSMINI	FIS Mini Fiber Optic Cleaning Kit	69.95
F1-0053CKM	Fiber Optic Cleaning Kit with 200X Microscope	175.00

ITW Chemtronics®
FIS IS AN ITW CHEMTRONICS MASTER DISTRIBUTOR!



CFK1000



CFK1010



FSK1000

ITW Chemtronics Combination Cleaning Process™ Specialized Cleaning for Every Application

FIBER OPTIC CLEANING KITS

The ITW Chemtronics Combination Cleaning Process™ overcomes the problems encountered in both the wet cleaning process and the dry cleaning technique. The combination of effective products and application techniques make the CCP™ ideal for both Outside Plant and OEM cleaning applications.

PART #	DESCRIPTION	KIT CONTENTS	PRICE
CFK1003	Fiber Optic Cleaning Kit	5 - Electro-Wash® MX Universal Cleaner wipes, 1 - QbE® Cleaning Platform, 2 - Electro-Wash® MX Precision Fiber Optic Cleaner Pen (FW2150), 1 - 2.5mm Foam Fiber Optic Swabs (48042F), 1 - V-Groove and Ferrule Cleaning Swabs (38542F), 1 - Fusion Splice Mirror Cleaning Swabs (51125F), 1 - Lint-Free Precision Wipes (100 - 6704F), Instructions and 1 - Rugged Bag with carabineer attachment. Hazmat Fees May Apply.	\$140.00
CFK1000	FTTH Fiber Optic Cleaning Kit	1-QbE® Cleaning Platform, 1-Electro-Wash® Precision Fiber Optic Cleaner (ES810), 1- 2.5mm Foam Fiber Optic Swabs (48042F), 1-V-Groove and Ferrule Cleaning Swabs (38542F), 1-Fusion Splice Mirror Cleaning Swabs (51125F), 1 - Lint Free Wipes (6704F), 5 - Electro-Wash® MX Universal Cleaner wipes (CP421), instructions and 1- Rugged Bag with carabiner attachment. Hazmat Fees May Apply.	144.00
CFK1010	Installation/Maintenance Fiber Optic Cleaning Kit	1-QbE® Cleaning Platform, 1-Electro-Wash® Precision Fiber Optic Cleaner (ES810), and 1- 2.5mm Foam Fiber Optic Swabs (48042F), 1 - Lint Free Wipes (6704F), 5 - Electro-Wash® MX Universal Cleaner wipes (CP421), instructions and 1- Rugged Bag with carabiner attachment. Hazmat Fees May Apply.	105.00
FSK1000	Fusion Splice Prep/Cleaning Kit	FsP™ : new patent pending 'vertical' aerosol, FsW™ : 100-'aperatured' wipers, 100 : 38542FV-Groove Cleaning Swabs, 50: 51125F Precision Mirror Cleaning Swabs, 10 : CP 421 for one-step gel removal and tool cleaning, 100 - 670F, pictorial instructions, and carrying bag.	90.00
CKK2	Compact Fiber Optic Cleaning Kit	F1-MXCP Cleaning Pen and SqR™ Compact Endface Cleaning Tool. Hazmat Fees May Apply.	25.00



FK03

STICKLERS CLEANING KITS

The Sticklers Fiber Optic Cleaning Kit has been engineered to help field techs clean fiber networks quickly, reliably and inexpensively. This kit puts the time-saving Sticklers cleaners in a "go anywhere, clean anything" package, giving each tech all the tools they need to get the job done right. The kit contains LED flashlight, rugged carry bag, cleaners, wipes and swabs. Plus, extra room for other supplies and tools. The military version also includes S16 swabs for military connectors: MIL-C-28876, MIL-C-38999, D4, MT-RJ. All Sticklers kits are non-haz and can ship air without any restrictions.

PART #	DESCRIPTION	PRICE
FK03	Sticklers Fiber Optic Cleaning Kit	\$98.00
FK05	Sticklers Military-Ready Cleaning Kit (Not Pictured)	98.00



Buy FIS
in Bulk
and
Save!!



FIS EPOXY FOR CONNECTORIZATION

Each pre-measured two-part packet contains the proper ratio for connectorization. Every packet includes specific directions for use with fiber optic connectors.

PART #	STYLE	2 GRAM PRICE	4 GRAM PRICE
H05-100-RX	Quick Cure - Single Pack	\$2.95	\$3.95
T60-065-BX	Blue Dye - Single Pack	2.95	3.95
T120-023-CX	Room Cure - Single Pack	2.95	3.95
H15-080-RX	Heat Cure - Single Pack	2.95	3.95
H05-100-RX-50	Quick Cure - 50 Pack	135.00	177.75
T60-065-BX-50	Blue Dye - 50 Pack	135.00	177.75
T120-023-CX-50	Room Cure - 50 Pack	135.00	177.75
H15-080-RX-50	Heat Cure - 50 Pack	135.00	177.75

Replace "X" with "2" for 2 Gram Package or "4" for 4 Gram Package.



CYANOCRYLATE ADHESIVE (BOBTAIL ADHESIVE)

This quick set cyanoacrylate adhesive is provided for terminating FIS Bobtail Connectors. An accelerant provides even faster cure time, less than 60 seconds.

PART #	DESCRIPTION	PRICE
F1-BTXY	Adhesive (for Bobtail Connector)	\$30.50

EPO-TEK EPOXY

The two-part EPO-TEK Epoxy is a favorite of many fiber optic users. The epoxy remains liquid until heat is applied. The application of heat provides a quick cure, turning the epoxy to a reddish-brown color. The EPO-TEK Epoxy will not react like other epoxies to coating applied to the larger core/clad diameter of specialty fibers.

PART #	DESCRIPTION	PRICE
353ND	EPO-TEK Epoxy (8 oz. Kit)	\$55.00

TRA-CON EPOXY

PART #	DESCRIPTION	PRICE
BAF253	Quick Cure	\$6.95
BAF113SC	Blue Dye	6.95
BAF120	Room Cure	7.95
BAF112	Blue Dye	6.25
501202-1	Epoxy Mixer (Roller)	6.25



ANAEROBIC ADHESIVE

This two-part system self cures in minutes with no heat required. The retaining compound is injected into the connector with a syringe needle. Dip or spray the fiber with primer and connectorize as usual. Sets in 30 seconds, fully cured in minutes. Domestic ground shipment only.

PART #	DESCRIPTION	PRICE
680	Anaerobic Adhesive Hardener	\$12.25
7649	Primer	11.25
F1-ANAEROBICKIT	Kit (Anaerobic Adhesive, Primer and Syringe Tip)	55.00

HYSOL EPOXY

Contained in two separate tubes or packets, the Hysol Epoxy can be heat or time cured. Hysol Epoxy is excellent for general connector use. A quick dry, 4 gram, mini packet is available for individual connector repair.

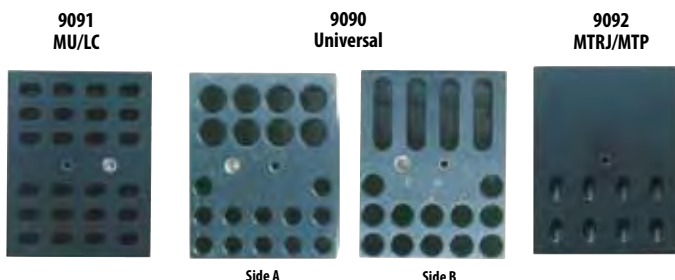
PART #	DESCRIPTION	PRICE
F1-707010	Hysol Epoxy (3.4 oz.) (10 sets in each case)	\$95.95
F1-608	Mini Packet (4gm) Fast Cure Epoxy	1.60



FIS CONNECTOR HEAT OVEN

To prevent epoxy "out gassing" that can cause fiber fractures and other connector problems, it is important that a connector curing oven provide reliable operation. The FIS Connector Oven is preferred by many installers because it is simple, dependable, and easy-to-use.

PART #	DESCRIPTION	PRICE
F1-9772	24 Port Heat Oven (FC/ST/D4/SMA/SC) 4011-0000 Included	\$225.00
F1-977220	24 Port Heat Oven (220 V) (FC/ST/D4/SMA/SC)4011-0000 Included	225.00
9091	MU/LC Holding Block	70.00
9090	Universal Holding Block (side A - ST, FC, SMA, D4, side B - Biconic, SC)	59.00
9092	MTRJ/MTP Ferrule Holding Block	70.00
4011-0000	24 Port Block (FC,ST,D4,SMA,SC)	55.00
9451S	Curing Stand	25.00
8032-0000	Thermometer	15.35



OPTIONAL CURING STAND SHOWN



OVEN PROTECTION SLEEVES

Use to prevent breakage of protruding fiber during connector heat oven curing process. These oven protection sleeves are reusable.

PART #	DESCRIPTION	PRICE
80879000M	Oven Protection Sleeve, 2.5mm Ferrules (Each)	40¢
867730011	Molex Oven Protection Sleeve, 1.25mm Ferrules (Each)	\$1.75

FIS HOT MELT AND DUAL PURPOSE HEAT OVENS

Sometimes, you may use epoxy-style connectors. Other times, you may prefer hot-melt connectors. This Dual Purpose Oven lets you use both! This unit includes an 8-port epoxy heater block, with temperature settings up to 100°C, and a 6-port hot melt block factory set at 245°C, which accepts 3M hot melt connectors. Each block has its own switch.

PART #	DESCRIPTION	PRICE
F1-9110	FIS 6 Port Hot Melt Oven (110v) (pictured)	\$296.00
F1-9110220	FIS 6 Port Hot Melt Oven (220v) (not pictured)	430.00
F1-9130	FIS 12 Port Hot Melt Oven (not pictured)	345.00
F1-9150	FIS 14 Port Dual Purpose Hot Melt / Epoxy Oven (not pictured)	345.00
F1-5225	FIS ST/SC/FC Universal Connector Holder (not pictured)	21.50



ULTRAVIOLET (UV) ADHESIVES AND KIT

Available from FIS, this Ultraviolet Curing Kit contains a portable battery operated UV lamp, UV epoxy and protective goggles providing the ability to perform quick epoxy cures. The new higher intensity UV bulbs cure epoxy faster, excellent for use on glass tube splices and epoxy cured connectors. Safety glasses that protect against fiber splinters and UV radiation are available separately.

Kit Includes: UV lamp with bulb, safety glasses, UV adhesive and batteries.
(Recommended option for Bobtail™ Connectors.)

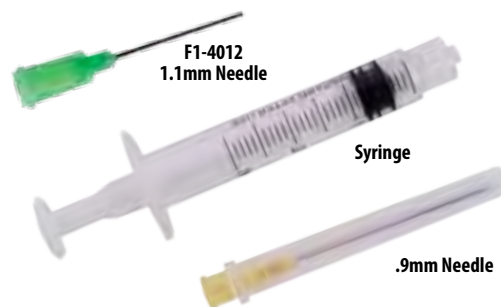
PART #	DESCRIPTION	PRICE
WO-1067	UV Kit	\$235.00
WO-1063	Replacement Bulb	45.00
F1-S13390C	Safety Glasses	4.95
WO-1057	UV Adhesive (1 oz. bottle)	32.00

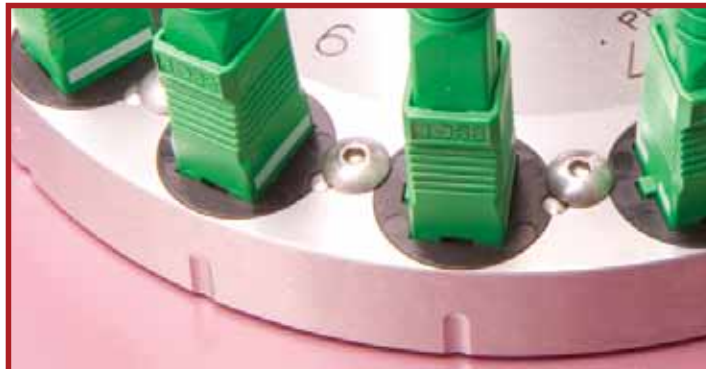


EPOXY APPLICATION SYRINGE

When assembling multiple fiber optic connectors, these Epoxy Syringes enable you work quickly and efficiently. The included dispensers (needles) enable you to easily inject epoxy into connectors. Economically priced, they can be replaced the moment the epoxy is no longer easily workable. A larger diameter 1.1mm applicator needle is also available, F1-4012, which can be used with the 501473-3IR empty syringe.

PART #	DESCRIPTION	PRICE
501473-3IRC5	Empty Syringe with .9mm Needle (5 pk.)	\$1.25
501473-3IRC25	Empty Syringe with .9mm Needle (25 pk.)	6.25
501473-3IRC100	Empty Syringe with .9mm Needle (100 pk.)	25.00
F1-4012	1.1mm Applicator Needle for 3M Connectors (25 pk.)	25.50





For Quality Assurance 3M™ Polish Film Is Sold Only In Factory Packs of 25 or 50
Call for other grades, sizes and pressure sensitive adhesive (PSA) backed products.

3M™ DIAMOND LAPPING FILMS

Premium diamond abrasive film to cut and polish hard ceramic ferrules and glass cores at the same level, at a consistent rate.

3M™ POLISHING FILM - MT

- Eliminates slurries and messy cleanup
- High first-pass yield minimizes rework
- Precisely graded particles are coated on a high-strength backing

3M™ LAPPING FILMS

- Micron graded materials on uniform polyester backing
- Provides consistent, repeatable finishes in sequence
- Use on ceramic, stainless steel, plastic and composite ferrules
- Innovative, cost-effective method to finish fiber optic connectors

3M™ FINAL POLISH DISCS

For final polishing fiber optic connectors, this film meets industry standards for back reflection.

- Eliminates slurries and messy cleanup
- High first-pass yield minimizes rework
- Meets Telcordia Standards GR-326

3M™ LAPPING FILM 5" DISCS

PART #	MATERIAL	GRIT	PACK SIZE	DISC PRICE
DLF5XN.5661X	Diamond	.5µm	25	\$4.50
DLF5XN01661X	Diamond	1µm	25	4.50
DLF5XN03661X	Diamond	3µm	25	4.50
DLF5XN06661X	Diamond	6µm	25	4.50
DLF5XN15661X	Diamond	15µm	25	4.50
A05XN.05263X	Alum. Oxide	.05µm	50	.50¢
A05XN.3263X	Alum. Oxide	.3µm	50	.35¢
A05XN03263X	Alum. Oxide.	3µm	50	.35¢
SC5XN15461X	Silicon Carbide	15µm	50	.35¢
HDF5XN0.5662XW	Diamond H	.5µm	25	5.00
HDF5XN01662XW	Diamond H	1µm	25	5.00
HDF5XN1.5662XW	Diamond H	1.5µm	25	5.00
HDF5XN03662XW	Diamond H	3µm	25	5.00
HDF5XN06662XW	Diamond H	6µm	25	5.00
863X5NH	5" Final Polish		50	1.85
865X5NH	5" Final Polish		50	2.95

3M™ POLISHING FILM - MT 5" DISCS

PART #	MATERIAL	GRIT	PACK SIZE	DISC PRICE
FCO-0.55XN598PSA	Cerium Oxide Flock Film PSA	0.5µm	50	\$2.50
FAO-0.55XN298PSA	Alum. Oxide Flock Film PSA	0.5µm	50	2.50
FAO-015XN298PSA	Alum. Oxide Flock Film PSA	1µm	50	3.00
FSC-035XN498PSA	Silicon Carbide Flock Film PSA	3µm	50	3.00
SC155XN468PSA	Silicon Carbide Lapping Film PSA	15µm	50	.85¢
SC035XN468PSA	Silicon Carbide Lapping Film PSA	3µm	50	.85¢
SC305XN468PSA	Silicon Carbide Lapping Film PSA	30µm	50	.85¢

3M™ LAPPING FILM 4" DISCS

PART #	MATERIAL	GRIT	PACK SIZE	DISC PRICE
DLF4XN.5661X	Diamond	.5µm	50	\$4.30
DLF4XN01661X	Diamond	1µm	50	4.30
DLF4XN03661X	Diamond	3µm	50	4.30
DLF4XN06661X	Diamond	6µm	50	4.30
DLF4XN15661X	Diamond	15µm	50	4.30
A04XN.05263X	Alum. Oxide	.05µm	50	.35¢
A04XN.3263X	Alum. Oxide	.3µm	50	.35¢
A04XN03263X	Alum. Oxide	3µm	50	.35¢
SC4XN15461X	Silicon Carbide	15µm	50	.35¢
HDF4XN0.5662XW	Diamond H	.5µm	50	5.25
HDF4XN01662XW	Diamond H	1µm	50	5.25
HDF4XN1.5662XW	Diamond H	1.5µm	50	5.25
HDF4XN03662XW	Diamond H	3µm	50	5.25
HDF4XN06662XW	Diamond H	6µm	50	5.25
863X4NH	4" Final Polish		50	1.75
865X4NH	4" Final Polish		50	2.45

3M™ LAPPING FILM 9" X 13" SHEETS

PART #	MATERIAL	GRIT	PACK SIZE	SHEET PRICE
A09X130.3261X	Alum. Oxide	.3µm	50	.90¢
A09X1301262X	Alum. Oxide	1µm	50	.90¢
A09X1302262X	Alum. Oxide	2µm	50	.90¢
A09X1303261X	Alum. Oxide	3µm	50	.90¢
A09X1312262X	Alum. Oxide	12µm	50	.90¢
A09X1309261X	Alum. Oxide	9µm	50	.90¢
SC9X1305461X	Sil. Carbide	5µm	25	.90¢
SC9X1315461X	Sil. Carbide	15µm	50	.90¢
SC9X1330461X	Sil. Carbide	30µm	50	.90¢

3M™ LAPPING FILM 9" X 6.5" SHEETS

PART #	MATERIAL	GRIT	PACK SIZE	SHEET PRICE
A09X60.3261X	Alum. Oxide	.3µm	50	.50¢
A09X601262X	Alum. Oxide	1µm	50	.50¢
A09X602262X	Alum. Oxide	2µm	50	.50¢
A09X603261X	Alum. Oxide	3µm	50	.50¢
A09X609261X	Alum. Oxide	9µm	50	.50¢
SC9X605461X	Sil. Carbide	5µm	50	.50¢
SC9X615461X	Sil. Carbide	15µm	50	.50¢
SC9X630461X	Sil. Carbide	30µm	50	.50¢

3M™ LAPPING FILM 6" x 6" SHEETS

PART #	MATERIAL	GRIT	PACK SIZE	SHEET PRICE
DLF6X6.5661X	Diamond	.5µm	25	\$5.95
DLF6X601661X	Diamond	1µm	25	5.95
DLF6X603661X	Diamond	3µm	25	5.95
DLF6X606661X	Diamond	6µm	25	5.95
A06X6.05263X	Alum. Oxide	.05µm	50	.50¢
A06X603263X	Alum. Oxide	3µm	50	.50¢
A06X605261X	Alum. Oxide	5µm	50	.50¢
A06X612264M	Alum. Oxide	12µm	50	.55¢
863X6X6NH	Final Polish		50	\$2.50

3M™ DIAMOND LAPPING FILM 3" X 6" SHEETS

PART #	GRIT	PACK SIZE	SHEET PRICE
DLF3X601661X	1µm	25	\$4.50
DLF3X603661X	3µm	25	4.50
DLF3X606661X	6µm	25	4.95
DLF3X630661X	30µm	25	6.55



CAP
CABLE ASSEMBLY
PARTNERSHIP PROGRAM

FIS has joined with Manufacturers to offer preferred pricing and services under our Cable Assembly Partnership (CAP) Program. Cable Assembly Companies that qualify as CAP members will receive:

- Incredible pricing on cable, polish film, epoxy and connectors
- No quantity buys required
- Based on regular use of FIS and 3M products
- Limited memberships available
- Expanding product lines

Attention Cable Assembly Houses
FIS Proudly Introduces our
Cable Assembly Partnership Program (CAP)

Steps	3M™ 5" Disc Value	Mineral	Micron Size / Color
#1 De-Nub and Epoxy Removal	461X	Silicon Carbide	15µm / Gray
	661X	Diamond	1µm / Lav 3µm / PNK 6µm / BRW
#2 Refine (Level Connector)	662XW	Diamond	1µm / Lav 3µm / PNK 6µm / BRW
	863XW	Silicon Dioxide	Final Polish/Translucent
#3 Polish (Finish)	865X	Silica	Final Polish / White

Let Us Quote A 3 Step Solution!

With 20 years of cable assembly experience, FIS can show you how to achieve maximum value using specific 3M™ Lapping Films. The following are our current recommendations. The films highlighted above provide exceptional value in terms of pricing and performance.

FIS POLISH FILM-SOLD IN PACKS OF 25 SHEETS

When choosing polish film, you want to achieve two things; a high-quality end face finish, and maximum value for your money. FIS Polish Films provide both! Carefully graded abrasives are bonded with quality adhesives, enabling you to polish more connectors per sheet.

LARGE SHEETS 9" X 13"

PART #	MATERIAL	GRIT	COLOR	PRICE
F1-0109-03	Alum. Oxide	.3µm	White	\$18.75
F1-0109-1	Alum. Oxide	1µm	Lt. Green	18.25
F1-0109-2	Alum. Oxide	2µm	Aqua	18.25
F1-0109-3	Alum. Oxide	3µm	Pink	18.25
F1-0109-5	Silicon Carbide	5µm	Black	18.25
F1-0109-9	Alum. Oxide	9µm	Lt. Blue	18.25
F1-0109-12	Alum. Oxide	12µm	Dark Yellow	18.25
F1-0109-15	Silicon Carbide	15µm	Dark Grey	18.25
F1-0109-5-1-03	3 in 1 Film	(5, 1, .3µm)		19.75

STANDARD SHEETS 9" X 6.5"

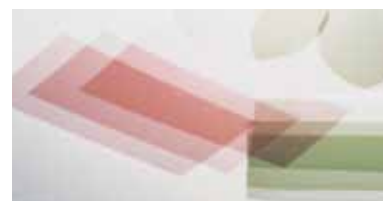
PART #	MATERIAL	GRIT	COLOR	PRICE
F1-0102-03	Alum. Oxide	.3µm	White	\$9.50
F1-0102-1	Alum. Oxide	1µm	Lt. Green	9.50
F1-0102-2	Alum. Oxide	2µm	Aqua	9.50
F1-0102-3	Alum. Oxide	3µm	Pink	9.50
F1-0102-5	Silicon Carbide	5µm	Black	9.50
F1-0102-9	Alum. Oxide	9µm	Lt. Blue	9.50
F1-0102-12	Alum. Oxide	12µm	Dark Yellow	9.50
F1-0102-15	Silicon Carbide	15µm	Dark Grey	9.50

FIS DIAMOND POLISH FILM SHEETS

PART #	DESCRIPTION	GRIT	COLOR	QTY	PRICE
F1-0107-1S	3" x 6" Sheet	1µm	Violet	1	\$4.25
F1-0107-3S	3" x 6" Sheet	3µm	Pink	1	4.25
F1-0107-30S	3" x 6" Sheet	30µm	Green	1	5.00

FIS MACHINE POLISHING DISCS

PART #	SIZE	TYPE	GRIT	COLOR	QTY.	PRICE
F1-010705D	4" diameter	Aluminum Oxide	.05µm	Yellow	25	\$15.95
F1-01071DD	4" diameter	Diamond	1µm	Violet	1	3.50
F1-01073DD	4" diameter	Diamond	3µm	Pink	1	3.50
F1-01076DD	4" diameter	Diamond	6µm	Grey	1	3.50
F1-010730DD	4" diameter	Diamond	30µm	Green	1	3.50
F1-010805D	5" diameter	Aluminum Oxide	.05µm	Yellow	25	\$8.95
F1-01081DD	5" diameter	Diamond	1µm	Violet	1	5.00
F1-01083DD	5" diameter	Diamond	3µm	Pink	1	5.00
F1-01086DD	5" diameter	Diamond	6µm	Brown	1	5.00
F1-010830DD	5" diameter	Diamond	30µm	Green	1	5.00





SFP-70D2



SFP-70D2 POLISHING MACHINE

The Seikoh Giken SFP-70D2 polishing machine polishes 2 ferrules at a time. It is best suited for lab use and re-polishing solution at mass production line. Its portability and light weight make this machine great for field polishing and re-polishing.

PART #	DESCRIPTION	PRICE
SFP-70D2	Programmable Polisher with standard accessories	\$3,500.00
PH072-FP-2	FC/PC Polish Fixture (2 position)	500.00
PH072-FP8RC-2	FC/APC Polish Fixture (Conical Narrow Key)	1,000.00
PH072-CP-2	SC/PC Polish Fixture (2 position)	500.00
PH072-CP8C-2	SC/APC Polish Fixture (Conical 2 position)	1,000.00
PH072-SP-2	ST/PC Polish Fixture	500.00
PH072-PL-2	LC/PC Polish Fixture	500.00



SFP-70D



SFP-70D POLISHING MACHINE

The Seikoh Giken SFP-70D polishing machine can polish up to 6 axes at a time. This polishing machine is suited for smaller production capacity. It can be operated on DC power supply for use in the field. It is capable of polishing a variety of connectors, including SC, FC, LC, MU and ferrules.

PART #	DESCRIPTION	PRICE
SFP-70	Programmable Polisher with standard accessories	\$7,375.00
PH07-FP-6	FC/PC Polish Fixture (6 position)	1,700.00
PH07-FP8RC-6	FC/APC Polish Fixture (Conical Narrow Key)	1,000.00
PH07-CP-6	SC/PC Polish Fixture	1,700.00
PH07-CP8C-6	SC/APC Polish Fixture (Conical)	2,500.00
PH07-SP-6	ST/PC Polish Fixture	1,700.00
PH07-PL-6	LC/PC Polish Fixture	1,700.00

ACCESSORIES FOR SFP-70D2 and SFP-70D

PART #	DESCRIPTION	QTY.	PRICE
GA07	Height Adjustment Polishing Film	500	\$81.00
DR07-9U	9µm Diamond Rough Polishing Film	20	100.00
DH07-3U	3µm Diamond Medium Polishing Film	20	100.00
XF07	Final Polishing Film	20	200.00

SFP-70 FEATURES

- High performance polishing for a variety of applications
- Ergonomic, simple design for ease of use
- Uses SG patented Independent Pressure Control
- Short cycle times (2 min. typical for reworks)



SFP-550C

SFP-550C MASS PRODUCTION POLISHING MACHINE

This high-performance polish machine offers superior quality and maximum throughput at a very affordable price. Utilizing a patented, high speed rotation and revolution method, this polisher prepares connectors which exceed Telcordia GR-326 requirements for end face geometry. Standard capacity 18 connectors, up to 48 LC/MU.

PART #	DESCRIPTION	PRICE
SFP-550C	SFP-550C Polisher with standard package	\$9,700.00
PH55-FP-20	FC/PC Polish Fixture (20 position)	4,200.00
PH55-FP8RC-18-1	FC/APC Polish Fixture (18 position)	4,800.00
PH55-CP-20	SC/PC Polish Fixture (20 position)	4,025.00
PH55-CP8C-18	SC/APC Polish Fixture (18 position)	4,800.00
PH55-SP-20	ST/PC Polish Fixture (20 position)	4,025.00
PH55-PL-24	LC Polish Fixture (24 position)	4,200.00

ACCESSORIES FOR SFP-550C

PART #	DESCRIPTION	QTY.	PRICE
GA5D	30µm Silicon Carbide Adhesive Removal Film	500	\$264.00
DR5D-9U	9µm Diamond Rough Polish Film	20	88.00
DG5D-5U	5µm Diamond Rough Polish Film	20	88.00
DH5D-3U	3µm Diamond Middle Polish Film	20	88.00
DI5D-1.5U	1.5µm Diamond Middle Polish Film	20	88.00
SF5D	1µm Alum. Oxide Final Polish Film	500	390.00
XF5D	0.5µm Silica Final Polish Film	100	210.00

STANDARD PACKAGE - SFP550C

DESCRIPTION	PART #	QTY
Main Body	SFP-550C	1
Cable Holder	FP-CH	1
Operating Manual	FP-IM12	1
Process Manual	FP-MM12	1
Maintenance Manual	FP-PM12	1
2A Fuse	FP-F2A	1
Hexagon Wrench	FP-TS	1

FEATURES

- Compatible with all existing SFP series I.P.C. Holders
- Increased turntable speed
- Exceeds all requirements for GR-326 End-Face Geometry requirement



HAND POLISHING DISCS

The metal fiber optic polishing discs are especially durable and are machined to close tolerances. They are designed to hold your fiber optic endface at exactly the correct angle to the polishing film during the polishing process.

PART #	DESCRIPTION	PRICE
F1-6925UN	ST/SC/FC Universal 2.5mm Polish Disc (C)	\$45.00
F1-6925ST	ST Polish Disc (D)	39.95
F1-6977ST	ST 4 Position Polish Disc (A)	125.00
F1-6928SC	SC Polish Disc (E)	39.95
F1-6928APC	SC/APC Polish Disc (B)	75.00
F1-6925FC	FC/PC Polish Disc	39.95
F1-6925FCAPC	FC/APC Polish Disc	75.00
F1-6930UN	MU/LC Polish Disc (F)	45.00
F1-6900APC	LC/APC Polish Disc	75.00
F1-6925SMA	SMA Polish Disc	45.00
F1-6926	D4 Polish Disc	85.00
F1-6927	Biconic Polish Disc (may not work with all brands)	85.00

ULTRA PRECISION POLISHING PADS

Ultra Pads are color coded for easy recognition by the machine operators. 4" and 5" discs are .079" thick and 6" x 6" squares are 0.250" thick.

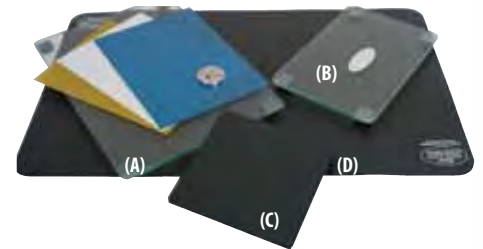
PART #	DESCRIPTION	PRICE
F1-70D4	4" Circular Rubber Pad 70 Durometer (purple)	\$18.00
F1-90D4	4" Circular Rubber Pad 90 Durometer (black)	18.00
F1-70D5	5" Circular Rubber Pad 70 Durometer (purple)	18.00
F1-90D5	5" Circular Rubber Pad 90 Durometer (black)	17.65
F1-70DX6	6" x 6" Square Rubber Pad 70 Durometer (purple)	16.50
F1-90DX6	6" x 6" Square Rubber Pad 90 Durometer (black)	16.50



POLISH PLATES, PADS AND MATS

The polishing of fiber optic connectors calls for both a hard flat surface and a cushioned pad. The 9" x 13" or 6" x 9" polish plate is available in safety glass and mounted on four rubber feet for support. When polishing PC style pre-radius connectors, use the soft polish pad on the glass plate. Placing the lapping film over the pad assures the removal of epoxy and proper polish of fiber without destroying the pre-radius of the ferrule.

PART #	DESCRIPTION	PRICE
F1-9111	FIS Polish Glass Plate (9" x 13") (A)	\$16.95
F1-9111A	FIS Polish Glass Plate (6" x 9") (B)	12.95
PP-575	5.75" Square Polishing Pad, 1/16" Thick 70 Durometer (C)	5.95
F1-0024	Large Black Work Mat (22" x 14") (D)	6.95
PPG-575	5.75" Square Polishing Pad with 1/4" Acrylic Plate (not pictured)	15.00



PROTON™ FIELD POLISHER

Proton™ is designed for field polishing environments in which cable and connector access is limited. Rather than bringing a cable to the polisher, Proton™ can be located in close proximity of the connector to be processed. Proton™ features true, hand-held operation in a rugged, and battery operated package. Applications include FTTx, CATV and avionic/harsh environments.

PART #	DESCRIPTION	PRICE
PRTX	Base Unit with AC Adapter and 9V Battery (No plates included)	\$2,835.00
PRT-W10	2.5mm UPC Polishing Fixture (SC/FC/ST/Ferrule) with Starter Film Kit	1,725.00
PRT-W80	1.25MM UPC Polishing Fixture (LC/MU/Ferrule) with Starter Film Kit	1,900.00
PRT-W30	FC/APC Polishing Fixture (8 Degree) with Starter Film Kit	1,900.00
PRT-W40	SC/APC Polishing Fixture (8 Degree) with Starter Film Kit	1,900.00
PRT-W95	SMA Polishing Fixture with Starter Film Kit	1,900.00
PRT-W62	M29504 Mil-Spec Termini Polishing Fixture with Starter Film Kit	2,150.00
PRT-C-1	Ruggedized and Waterproof Storage/Transit Case	395.00



DURABLE, CONVENIENT, AND FULLY CUSTOMIZABLE



FIS is the leader in the fiber optic industry and offers the best value on Tool Kits. Every year FIS expands upon its Tool Kit line and upgrades several tools to show our commitment to providing quality kits. The Universal Connectorization Epoxy Tool Kit provides a technician with materials to prep and connectorize standard fiber optic connectors such as ST, SC, and FC. For technicians searching for the ultimate Tool Kit, review our Universal Multimode Test Set Kit and Fusion Splicing Kits.



Greenlee Tools available in Tool Kits.
Look For **Green** Part Numbers.



Basic Fiber Optic Kit
F1-0053

FIS BASIC FIBER OPTIC TOOL KIT

- PVC Electrical Tape (F1-0008)
- 2 oz. Cleaning Solvent (F1-6706)
- Trihole Fiber Stripper (F1-1301T)
- FIS Connector Cleaner (F1-7020C)
- Kevlar Scissors (F1-KS1)
- Jacket Stripper (F1-0016)
- Buffer Tube Stripper (F1-0017)
- Round Cable Slitter (MK02)
- 6" Side Cutting Pliers (200038)
- (50) Foam Swabs (F1-0005)
- Cleaning Tissue (F1-6705)
- Utility Knife (F1-0023BLK)
- Tweezers (F1-0019)
- Needle Nose Pliers (100021)
- Piano Wire (F1-8265K)
- Fiber Optic Wipes (F1-6705)
- 4 Bit Screwdriver (F1-0027)
- Black Marker (F1-9104)
- Safety Glasses (F1-1S13390C)
- (5) Degreaser Wipes (F1-1010)
- (5) Fusion Splice Sleeves 60mm (F1-1002C)
- Black Work Mat (F1-0024)
- Fiber Disposal Unit (F1-8328C)
- Ruler (RMC-6)
- Fabric Tape Measure (F1-8273)
- 1/2" Nut Driver (1UG30G)
- (3) Economy Tie Labels (P50LABELKIT)
- Rugged Carry Case (F10053HARD)
- Shrink Tube Kit (P50TUBEKIT)
- 1Mtr 3mm Furcation (F00FR3RO)
- 1Mtr 900µm Furcation (F00FR900HW)

PART #	DESCRIPTION	PRICE
F1-0053	Basic Tool Kit (Pictured)	\$395.00
F1-0053C	Replacement Consumables	39.95
F1-0053P	Basic Tool Kit with PVFL (F1-9000)	485.00
F1-0053SB	Basic Tool Kit with Soft Case	375.00
F1-0053-G	Basic Tool Kit with Greenlee Tools (8 Tools See Below)	485.00
F1-0053P-G	Basic Tool Kit with PVFL (F1-9000) and Greenlee Tools (See Below)	575.00

Supplied Greenlee Tools:

- Jacket Stripper 26-16AWG (1917) - Replaces (F1-0016)
- 6" Side Cut Pliers (0251-06M) - Replaces (THT-2140C)
- 6" Needle Nose Pliers (0351-06D) - Replaces (200038)
- Utility Knife (0652-11) - Replaces (F1-0023BLK)
- 6 in 1 Screwdriver (0153-42C) - Replaces (F1-0027)
- 24' / 7.5 Meter Tape Measure (0155-7MA) - Replaces (F1-8273)
- 1/2" Nut Driver (0253-17C) - Replaces (1UG30)
- 7/16" Nut Driver (0253-16C) - Addition

Non-Hazardous Ships Air!

CONNECTORIZATION EPOXY TOOL KIT (LC, MU)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Glass Polish Plate (F1-9111)
- Carbide Scribe (F1-9773)
- LC/MU Crimp Tool (F1-8825)
- Rubber Polish Pad (PP-575)
- (5) Syringes (5014733IRC5)
- LC Adapter for Scope (F1-MA1.25)
- FIS Universal Microscope (F1-MS200X)
- (5) FIS 4gr. Blue Dye Epoxy (T60-065-B4)
- LC/MU Universal Polish Puck (F1-6930UN)
- (5) 0.5µm Diamond Film Sheet (DLF6X6.5661X)
- (5) 1.5µm Diamond Polish Film Sheet (DLF6X61.5661X)
- Instructions for FIS Connectors LC (F217)

PART #	DESCRIPTION	PRICE
F1-0053LM	Universal 1.25mm Epoxy Connectorization Tool Kit (LC/MU)	\$775.00

CONNECTORIZATION EPOXY TOOL KIT (SC, FC, ST)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Carbide Scribe (F1-9773)
- FIS Universal Crimp Tool (F1-3227)
- Rubber Polish Pad (PP-575)
- Glass Polish Plate (F1-9111)
- (5) Syringes (5014733IRC5)
- Universal Polish Puck (F1-6925UN)
- (5) 0.3µm Polish Film Sheet (F1-0102-03S)
- (5) 1µm Polish Film Sheet (F1-0102-1S)
- (5) 5µm Polish Film Sheet (F1-0102-5S)
- Instructions for FIS Connectors ST, FC and SC (F217)
- (5) FIS 4gr. Blue Dye Epoxy (T60-065-B4)
- FIS Universal Microscope (F1-MS200X)

PART #	DESCRIPTION	PRICE
F1-0053U	Universal 2.5mm Epoxy Connectorization Tool Kit (SC, FC, ST)	\$625.00
F1-0053UO	Universal Epoxy Connectorization Tool Kit with 24-Port Heat Oven	825.00
F1-0053UO220	Universal Epoxy Connectorization Tool Kit with 24-Port Heat Oven	825.00
F1-0053U-G	Universal Epoxy Tool Kit with Greenlee Tools (8 Tools)	725.00
F1-0053D	Replacement Consumables	84.95

FIS MINI BASIC FIBER OPTIC TOOL KIT

- Mini Soft Case (F1-0053BSC)
- PVC Electrical Tape (F1-0008)
- Tri-Hole Fiber Stripper (F1-1301T)
- FIS Connector Cleaner (F1-7020-C)
- Kevlar Scissors (F1-KS1)
- Buffer Tube Stripper (F1-0017)
- Round Cable Slitter (MK02)
- 6" Side Cutting Pliers (200038)
- (50) Foam Swabs (F1-0005)
- Fiber Optic Wipes (F1-6702)
- Utility Knife (F1-0023BLK)
- Tweezers (F1-0019)
- Needle Nose Pliers (100021)
- (5) Fusion Splice Sleeve 60mm (F1-1002C)
- 4 Bit Screwdriver (F1-0027)
- Black Marker (F1-9104)
- Ruler (RMC-6)
- Fabric Tape Measure (F1-8273)
- 2 oz. Cleaning Solvent (F1-6706)
- Piano Wire (F1-8265)

PART #	DESCRIPTION	PRICE
F1-0053MSB	Mini Basic Fiber Optic Tool Kit	\$299.00

FIS FUSION SPLICING TOOL KIT

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Cable Cutters (F1-1817)
- Flashlight (F1-605)
- Spatula (1003301)
- (12) Degreaser Wipes (F1-1010)
- 50 Pack Protection Sleeves 60mm (F1-S25C)
- Optional Lynx Cleaver (F1-LYNX)
- Optional Pocket Visual Fault Locator (F1-9000)

PART #	DESCRIPTION	PRICE
F1-0053FS	Fusion Splicing Tool Kit	\$475.00
F1-0053FS-C	with Lynx Cleaver (F1-LYNX) (Pictured)	1,050.00
F1-0053FS-VFL	with PVFL (F1-9000)	550.00
F1-0053FS-C-VFL	with PVFL and Cleaver	1,150.00
F1-0053FS-G	with Greenlee Tools	550.00



Universal Connectorization Epoxy Kit
F1-0053U / F1-0053LM



Mini Basic Tool Kit
F1-0053MSB



FIS Fusion Splicing Tool Kit
F1-0053FS-C



FIS Fiber Optic Cleaning Kit
F1-0053CKM

FIS FIBER OPTIC CLEANING KIT

- Canned Air (10oz) (F1-1007S)
- Fiber Optic Wipes (F1-6702)
- 2.5mm Foam Swabs (5pk) (F1-25184)
- 1.25mm Wrapped Swabs (5pk) (F1-25123)
- Alcohol Wipes (50pk) (F1-1004)
- FIS Connector Cleaner (F1-7020-C)
- 4 oz. Bottle of Alcohol (F1-0007SP)

PART #	DESCRIPTION	PRICE
F1-0053CK	Fiber Optic Cleaning Kit	\$75.00
F1-0053CKM	With 200X Microscope (Pictured)	175.00
F1-0053CKC	Replacement Consumables	39.95



F1-0053FSMINI

FIS MINI CLEANING KIT

The FIS Mini Cleaning Kit provides all of the essential cleaning supplies needed for fiber splicing. Kit includes: FIS Connector Cleaner (10), 2.5mm Mini Foam Swabs (50), Cleaning Pen, (100) 4" x 4" Woven Dry Wipes, (10) 4" x 6" Alcohol Towlettes, FIS Icky Clean, Carry Case

PART #	DESCRIPTION	PRICE
F1-0053FSMINI	FIS Mini Fiber Optic Cleaning Kit	\$69.95



**FIS Backpack Tool Kit
F1-0053PACK**

FIS BACKPACK TOOL KIT

All the great products you become accustomed to in the FIS Tool Kit now in a smaller, lightweight, and durable backpack. (Special custom kits are available)

PART #	DESCRIPTION	PRICE
F1-0053PACK	FIS Backpack Basic Fiber Optic Tool Kit	\$250.00
F1-0053PACKFS	FIS Backpack Fusion Splicing Tool Kit	325.00
F1-PACKFSC	FIS Backpack Splicing Tool Kit with Lynx Precision Cleaver	925.00
F1-PACKFSCVFL	FIS Backpack Splicing Tool Kit with PFL and Lynx Cleaver	1,025.00
F1-PACKFCSVFL	FIS Backpack Splicing Tool Kit with Pocket Fault Locator	425.00
F1-0053PACKG	FIS Backpack Basic Fiber Optic Tool Kit with Greenlee Tools	295.00
F1-0053PACKLM	FIS Backpack Universal 1.25mm Epoxy Tool Kit (LC/MU)	650.00
F1-0053PACKU	FIS Backpack Universal SC, FC, ST Epoxy Tool Kit	500.00
F1-0053PACKUG	FIS Backpack Universal Epoxy Tool Kit with Greenlee Tools	565.00

FIS UNIVERSAL MM TEST SET TOOL KIT

Includes all items in FIS Universal Epoxy Tool Kit (F1-0053U) plus:

- FIS Power Meter with Adapter (F1-8513HR)
- FIS MM 850/1300nm Light Source (9052-0000)
- (2) ST-ST 62.5µm MM 1 mtr Patch Cable (S288M1FISC)
- (1) ST-SC 62.5µm MM 1 mtr Patch Cable (S28YM1FISC)
- (1) ST-FC 62.5µm MM 1 mtr Patch Cable (S287M1FIS)
- (1) ST-ST 50µm 1 mtr. Patch Cable (S188M1FISC)
- (1) ST-SC 50µm 1 mtr. Patch Cable (S18YM1FISC)
- (1) ST-FC 50µm 1 mtr. Patch Cable (S187M1FISC)
- ST-ST Adapter (F1-8102SS)
- SC-SC Adapter (F1-8300)
- FC-FC Adapter (F1-8501)
- Visual Fault Locator (F1-9000)

PART #	DESCRIPTION	PRICE
F1-0053TS-ST	MM Test Set Tool Kit	\$1,695.00

FIS UNIVERSAL SM TEST SET TOOL KIT (NOT PICTURED)

Includes all items in FIS Universal Epoxy Tool Kit (F1-0053U) plus:

- FIS Power Meter with Adapter (F1-8513HR)
- FIS SM 1310/1550nm Light Source (9055-0000)
- (1) FC-SC SM 1 mtr Patch Cable (S37YS1FISC)
- (1) ST-FC SM 1 mtr Patch Cable (S378S1FISC)
- (1) SC-SC SM 1 mtr Patch Cable (S3YYS1FISC)
- Visual Fault Locator (F1-9000)
- FC-FC Adapter (F1-520)
- SC-SC Adapter (F13810BC)
- SC-FC Adapter (F1-34202)

PART #	DESCRIPTION	PRICE
F1-0053TS-FC	SM Test Set Tool Kit	\$2,695.00
F1-0053TS-CATV	SM Test Set Tool Kit with CATV PM and SC/APC LS	2,795.00

FIS HOT MELT TOOL KIT

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- FIS 6 Port Hot Melt Oven (F1-9110)
- (4pk) 3M Universal Holding Clips (6365HH)
- Universal Polish Disc (F1-6925UN)
- Carbide Scribe (F1-9773)
- FIS Universal Microscope (F1-MS200X)
- (2) Soft Polish Pad (F1-90D5)
- Glass Polish Plate (F1-9111)
- FIS Universal Crimp Tool (F1-3227)
- (50pk) 3M 2µm Film (6192A)
- (5) 3M .05µm SM Polish Disc (6192AA)

PART #	DESCRIPTION	PRICE
F1-0053HM	Hot Melt Tool Kit (110v Oven)	\$1,300.00
F1-0033HM	Hot Melt Tool Kit (220v Oven)	1,400.00

FIS ANAEROBIC TOOL KIT (SC and LC) (NOT PICTURED)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- Anaerobic Adhesive Hardener (680)
- Anaerobic Primer (7649)
- (10) Syringe Tips (5014733IRC5)
- Carbide Scribe (F1-9773)
- Universal Crimp Tool (F1-3227)
- LC/MU Crimp Die (F1-8825LM)
- Rubber Polish Pad (PP-575)
- (5) 1µm Polish Film Sheet (F1-0102-1S)
- (5) 5µm Polish Film Sheet (F1-0102-5S)
- (5) 0.3µm Polish Film Sheet (F1-0102-03S)
- (5) 1.5µm Diamond Film Sheet (DLF6X61.5661X)
- (5) 0.5µm Diamond Film Sheet (DLF6X6.5661X)
- Glass Polish Plate (F1-9111)
- 2.5mm Universal Polish Puck (F1-6925UN)
- LC Universal Polish Puck (F1-6930UN)
- FIS Universal Microscope (F1-MS200X)

PART #	DESCRIPTION	PRICE
F1-0053AH	FIS Anaerobic Tool Kit	\$850.00

FIS FIBROK™ SPLICE INSTALLATION KIT (NOT PICTURED)

Includes all items in FIS Basic Tool Kit (F1-0053) plus:

- FIS Cleaver (F1-6000)
- (5) 3M Fibriok Splices (2529)
- 3M Fibriok Assembly Tool (2501)
- FIS Index Matching Gel (F1-0001K)

PART #	DESCRIPTION	PRICE
F1-0053FI	3M Fibriok™ Splice Installation Kit	\$660.00
F1-0053FISM	3M Fibriok™ Kit with Singlemode Cleaver (F1-LYNX)	1,260.00



**FIS Universal MM Test Set Tool Kit
F1-0053TS-ST**



**Hot Melt Tool Kit
F1-0053HM**

DATA CENTER CLEANING STATION

The FIS Fiber Optic Cleaning Station is a unique new product that provides immediate access to cleaning supplies for technicians. These cleaning kits are wall mountable similar to First Aid kits found throughout many facilities. Open the top cover and find cleaning notes for technicians not familiar with fiber optics. Kits include cleaning instruments for both 2.5mm and 1.25mm ferrules on patch cables and through adapters in the back plane of enclosures. Optional MPO/MTP cleaning tool can be added to kit as well. Special edition and custom kits are available. Standard kit contents: (100) 4"x4" Clean Dry Wipes, 2 oz. Cleaning Solution, Auto-Advance Connector Cleaner, 2.5mm and 1.25mm back plane ferrule cleaning tools. Optional kits with MPO/MTP cleaning tool or choice of IBC™ Cleaners/AFL One Click Cleaners.



PART #	DESCRIPTION	PRICE
F1-6714	Fiber Optic Cleaning Station, Standard Kit	\$160.00
F1-6714MPO	Fiber Optic Cleaning Station, Standard Kit with MPO/MTP cleaning tool	230.00
F1-6714IBC	Fiber Optic Cleaning Station, Special Edition Kit with IBC™ cleaning tools for 2.5/1.25mm adapters	203.00
F1-6714IBCMPO	Fiber Optic Cleaning Station, Special Edition Kit with IBC™ cleaning tools for 2.5/1.25mm adapters and MPO/MTP cleaner	275.00
F1-6714AFL	Fiber Optic Cleaning Station, Special Edition Kit with AFL cleaning tools for 2.5/1.25mm adapters	223.00
F1-6714AFLMPO	Fiber Optic Cleaning Station, Special Edition Kit with AFL cleaning tools for 2.5/1.25mm adapters and IBC MPO/MTP cleaner	295.00

CUSTOMIZE ANY TOOL KIT

You have the option to customize any of the FIS Tool Kits. You can add or swap items from the FIS kits. Please contact an FIS Sales Representative for pricing.

TEST EQUIPMENT AND OPTIONS

- FIS Pocket Fault Locator
- FIS Power Meters
- FIS Light Sources
- FIS Talk Sets
- FIS Mini-OTDR
- FIS Pulse Suppressors and Test Boxes

PATCH CABLE OPTIONS

- FIS Singlemode simplex and duplex patch cables
- FIS Multimode simplex and duplex patch cables
- FIS Specialty patch cables: MTP, MT-RJ, E2000, MU, ESCON, FDDI, Polarization Maintaining, and VF45 (Volition)

ATTENUATOR OPTIONS

- FIS Male-Female attenuators in 1-20dB for FC, FC/APC, SC, SC/APC, ST, LC, and MU
- FIS variable attenuators

FIBER OPTIC STRIPPER OPTIONS

- F1-1301T - FIS Precision Fiber Stripper
- W01224 - Miller Stripper
- NN203 - No-Nik 203µm, Red
- F11171 - Paladin Fiber Optic Stripper

KEVLAR CUTTER OPTIONS

- F1KS1 - Miller Scissors
- F10020 - FIS Economy Scissors
- F16430 - Clauss Kevlar Cutters
- F19809 - Miller Kevlar Cutter
- PA1510A - Ceramic Kevlar Cutters

MICROSCOPE OPTIONS

- F1MS200X - FIS 200x Compact Microscope
- F1VS400F2.5 - FIS 400x Handheld Microscope
- F19786 - FIS 100x Handheld Universal Scope



CUSTOM KIT CASE OPTIONS

PART #	DESCRIPTION	DIMENSIONS and WEIGHT	PRICE
F1-0053HARD	FIS Standard Tool Case, Empty *	20" x 8" x 15", 10 lbs	\$100.00
F1-0053BSC	FIS Mini Soft Case, Empty *	16" x 11" x 5", 4 lbs	100.00
F1-0053ET	FIS Double Deep Case, Empty *	19" x 17" x 8", 9 lbs	225.00
F1-0053FN	FIS Standard Die Cut Foam Bottom Insert For F1-0053HARD		35.00
F1-0053PPN	FIS Pick N' Pluck Bottom Foam Insert		45.00
F1-0053STPN	FIS Standard Leather Pallet		45.00

* Must order bottom insert and top pallet from choices above.

FIS LASER SAFETY GLASSES

These high quality safety glasses employ superior laser safety lens technology. Laser protective dyes are molded into the plastic and will not scratch off, photobleach or degrade over time. The lenses protect from light wavelengths in the range of 800-1790nm. Glasses come with a protective carry case, lanyard and cleaning cloth. There are 2 styles to choose from: standard wrap-around and over-the-glasses. These are proudly made in the USA.

PART #	DESCRIPTION	PRICE
F1-IRD5-36	FIS Laser Safety Glasses, Over-The-Glasses Style, Adjustable Frames	\$120.00
F1-IRD5-35	FIS Laser Safety Glasses, Wrap-Around Style, Adjustable Frames	120.00



3M LIGHTED SAFETY GLASSES

Light Vision protective eyewear is industrial safety eyewear designed with integral hands-free lighting. Now, individuals can see and work in low light or dark environments with ultra-bright, adjustable LEDs on temples. Lights swivel for directional convenience, and long-lasting batteries provide up to 50 hours of continuous use. There are 2 styles to choose from: standard wrap-around and over-the-glasses.

PART #	DESCRIPTION	PRICE
11476-00000	3M Light Vision 2 LED Safety Glasses, Wrap Around Style	\$15.00
11489-00000	3M Light Vision LED Safety Glasses, Over-The-Glasses Style	14.00





F1-1301T



WO-1224

WO-1224D



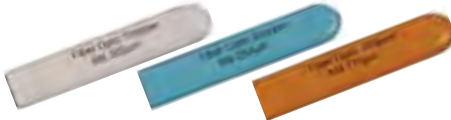
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8140



NN203



46107



F1-1171

Paladin Tools



45-352



FIS PRECISION FIBER STRIPPERS

Choose from strippers that remove the 3mm jacket, 900µm and 250µm buffer coating. Precision blades produce consistent clean strips. Tool length: 6.25 inches

PART #	DESCRIPTION	PRICE
F1-1301T	250µm, 900µm and 3mm Fiber Optic Stripper Three Hole	\$29.95
F1-1520	250µm, 900µm Outside Plant Buffer Stripper	30.95
F1-1500	Duplex Zipcord 900µm and 250µm Buffer Coating Stripper	30.95
F1-1212	Ribbon Stripper (outside jacket) (Not Pictured)	39.00

MILLER STRIPPERS

The Miller Stripper is an exceptional tool recommended for stripping 250µm coated fiber and 900µm buffer tube. The Miller Stripper has a .0055" (0.14mm) laser drilled hole, soft plastic-cushioned handle grip, and super accurate hardened stripping jaws, ensuring smooth clean stripping action.

PART #	DESCRIPTION	PRICE
WO-1224	Miller Stripper (Strips 250µm)	\$39.50
WO-1224D	Dual Hole Stripper (Strips 250µm or 900µm)	66.00
WO-1224T	Tri Hole Stripper (Strips 250µm, 900µm, 3mm Jacket)	72.30

FO-CF FIBER OPTIC CENTER FEED STRIPPER

New fiber stripper with center feed design allows for longitudinal fiber stripping.

PART #	DESCRIPTION	PRICE
81410	F0-CF Center Feed Fiber Stripper	\$90.85

NO-NIK STRIPPERS

In a single short stroke, the red handle removes 900µm buffer tube and the 250µm or 500µm fiber coating on tight buffer cable. The mustard handle removes 250µm coating. The blue, white and green handles remove the larger tubes that contain fibers in loose tube cable applications. Brown and clear handles are available for your plastic fiber requirements. Also available is the No-Nik Fiber Optic Strip Kit.

PART #	DESCRIPTION	PRICE
NN203	No-Nik 203µm (Red) Strips 250µm or 500µm Coating and 900µm Buffer	\$36.50
NN254	No-Nik 254µm (Blue) Strips Loose Tube	36.50
NN305	No-Nik 305µm (White) Strips Loose Tube	36.50
NN175	No-Nik 175µm (Mustard) Strips 250µm Coating	40.00
NN300	No-Nik Strip Kit (Mustard, Red and WO-1225) Strips 250µm, 500µm, 900µm/Buffer Tube and 3mm	123.50

MILLER CFS-2 STRIPPER

The new Miller CFS-2 Fiber Stripper has new "Super Comfort" grips. Ergonomically enhanced handles for extra comfort and ease of use. New factory set and locked calibration screw puck provides for better and more precise strips every time. One hole for removing 3mm jacket and the second opening to remove 250µm coatings. Replacement for Clauss.

PART #	DESCRIPTION	PRICE
46107	Miller CFS-2 Stripper	\$21.95

PALADIN STRIPPER

The new multi-function fiber optic stripper from Paladin has five settings for stripping fiber optic cable. Strips outer jacket from 2.0-2.4mm fiber, 2.8-3.0mm fiber and 2.0-3.0mm loose tube buffer tubes. Strips 900µm buffer from loose buffer without removing acrylate coating. Strips buffer and acrylate from 900/125µm and 250/125µm fiber. Factory set and calibrated.

PART #	DESCRIPTION	PRICE
F1-1171	ProGrip 5-in-1 Fiber Optic Stripper	\$52.75

MINILITE-STRIP™

The new MiniLite-Strip™ is small and features a V-notch to remove buffer and coating from 125µm fiber. An additional larger V-notch removes a wide range of outer cable jacket installations.

PART #	DESCRIPTION	PRICE
45-352	MiniLite-Strip	\$49.95

BUFFER TUBE STRIPPERS

Buffer Tube Strippers with adjustable blades can be set for any depth to help assure nick-free jacket entry. Use for simplex fiber and a variety of fiber optic cable up to 1/8 inch diameter. Loose tube fiber demands a precision tool capable of cutting different buffer tube diameters without nicking the enclosed fiber. Available is the blue buffer tube stripper for coaxial cable from 1/8 inch to 7/32 inch.

PART #	DESCRIPTION	PRICE
F1-0017	Grey Buffer Tube Stripper (For Fiber/Coax Applications)	\$18.95
F1-0021	Blue Buffer Tube Stripper (For Fiber/Coax Applications)	18.00
F1-0018	Replacement Blades (1 Set of 4 Blades)	8.00



F1-0017

THERMAL FIBER STRIPPER

The "Soft-Strip" Thermal Stripping Tool contains a heating element that softens and strips 900µm coatings. The thermal stripper permits precise stripping of these tough coatings with less than 1 lb. of peak pulling force for a single optical fiber. Excellent for use on fiber optic couplers and other delicate components. Uses two "AA" batteries, not included.

PART #	DESCRIPTION	PRICE
F1-9999	Thermal Fiber Stripper	\$145.00



F1-9999

MICRO-STRIP TOOL KIT

When working with optical fiber, you don't want your work to be compromised by accidentally damaging a fiber. The Fiber Optic Micro-Strip Tool Kit provides an easy and efficient way to strip fiber optic cable without nicking or damaging the optical fiber. Strips fiber buffers up to 900µm, and jackets up to 3.5 mm. Kit includes interchangeable/replaceable blades and tube guides.

PART #	DESCRIPTION	PRICE
MS-FOK1	Kit (10 blades for fiber range of 125µm to 1050µm)	\$135.00
MS-1FS	Blade Holder	12.75
MS-1RB06S	Replacement Blade-Violet (Strips to 125µm)	35.00
MS-1RB12S	Replacement Blade-White (Strips to 250µm)	35.00
MS-1RB21S	Replacement Blade-Royal Blue (Strips to 500µm)	35.00



MS-FOK1

FITEL DE-RIBBONIZER

The S220A uses two finely positioned blades to shave the matrix off the top and bottom of ribbon fiber while leaving the individual fiber jackets untouched. After the matrix is removed, the fibers separate out easily by hand. For use with 300 and 400µm ribbons of 2 to 12 strands. Blade life is 1,000 separations.

PART #	DESCRIPTION	PRICE
S220A	Fitel De-Ribbonizer	\$735.00



S220A



JIC-4366

OPTICAL FIBER SHEATH STRIPPER AND RING TOOL

Used for stripping and butting tight buffer optical fiber cables. Use one blade to butt PVC sheathing and use the second blade to strip the sheathing. Adjustable for .018" or .031" thick plastic, rubber or fabric insulation.

PART #	DESCRIPTION	PRICE
JIC-4366	Optical Fiber Sheath Stripper	\$47.95



MS-KS-1

RIBBON STRIPPING KIT

This unique thermal stripping kit includes the patented "Soft-Strip" thermal stripping system and contains components for stripping from 4 to 12-fiber ribbon of various constructions: 'Bonded', 'Encapsulated' or 'Ribbonized' types. AC adapter sold separately.

PART #	DESCRIPTION	PRICE
MS-SK-1	Ribbon Stripping Kit	\$475.00
MS-T3	120 Volt AC Adapter for Thermal Stripper	39.00



US CONEC RIBBON STRIPPER

The US Conec Optical Cable Jacket Removal Tool eliminates the need for sharp tools such as Exacto® knives or razor blades for cable jacket removal. The tool is designed for quick, reliable, economical removal of PVC jacket from ribbon interconnect cable, 3mm round cable and 2 fiber zipcord.

PART #	DESCRIPTION	PRICE
F1-2009	US Conec Ribbon Stripper	\$30.00



F1-0016



1917

T-STYLE JACKET STRIPPER

The dual "V" notch blade allows the quick removal of outer jacket. Plier nose, along with cushion grips and spring release are additional features making this stripper comparable to the Ideal T-Type® Stripper.

PART #	DESCRIPTION	PRICE
F1-0016	T-Style Stripper, 16-26 AWG	\$8.95
1917	Greenlee Stripper, 10-20 AWG	13.95



F1-0020



F1-KS1



F1-6430



PA-1510A

KEVLAR® CUTTERS

When cutting Kevlar®, you need a cutting tool with very durable blades. You also want the tool to cut cleanly, and to fit comfortably in your hand. FIS offers five Kevlar® cutters that fit the bill. The Kevlar® cutter, F1-KS1, features serrated blades and high leverage cutting, utilizing long cushioned handles. The Miller Kevlar® cutter, F1-9809, also features serrated blades and cushion handles. The Ceramic Kevlar® cutter, PA-1510A, has ceramic blades that last up to 50 times longer than stainless blades.

PART #	DESCRIPTION	PRICE
F1-0020	Economy Kevlar® Cutters (Metal Blade)	\$5.95
F1-KS1	Miller Scissors (Carbon Molybdenum and Vanadium Steel Blade)	15.00
F1-6430	Kevlar- Cutters (Carbon Steel Blade)	23.95
F1-9809	Miller Kevlar® Cutters (Steel Blade) (Not Pictured)	25.95
PA-1510A	Ceramic Kevlar® Cutters (Ceramic Blade)	29.95



925CS-ERGO

925CS

925CS-KIT

MILLER SCISSORS/SPLICER KIT

Ergonomic snip for linemen and installers. One blade features ergonomically shaped, cushioned palm rest and the other blade has the traditional ring bow.

PART	DESCRIPTION	PRICE
925CS-ERGO	Ergonomic Scissor/Splicer Snips	\$17.95
925CS	Traditional Serrated Scissor	14.25
925CS-KIT	Splicer's Kit	30.95



0251-06D

SIDE CUTTING PLIERS

The 6" side cutting pliers feature 1" cutting head for flush cutting, dual color cushioned handles and are manufactured of hardened steel.

PART #	DESCRIPTION	PRICE
0251-06D	Greenlee 6" Side Cutting Pliers	\$17.40



F1-900759

RATCHETING CABLE CUTTERS

The Ratcheting Cutter is great for aluminum armor, not intended for ACSR. Cuts up to 35mm diameter.

PART #	DESCRIPTION	PRICE
F1-900759	Greenlee Fully Ratcheting Cable Cutter	\$235.00



0151-08D

LINEMAN'S B SIDE CUT PLIERS

These pliers are high leverage for cutting bolts, nails, and many gauges of wire including high-strength wire. Cutting edges cut clean and remain sharp.

PART #	DESCRIPTION	PRICE
0151-08D	Greenlee 8" High Leverage Side Cutting Pliers	\$30.00



F1-727

HIGH LEVERAGE CABLE CUTTERS

This is a utility cable cutter for up to 70mm cable. This manual tool is great for standard power, coaxial, and non-armored cables.

PART #	DESCRIPTION	PRICE
F1-727	Greenlee Cable Cutters	\$28.95



0251-08M

HIGH LEVERAGE DIAGONAL CUTTERS

Crafted for heavy-duty wire cutting and made of specially forged alloy steel designed for strength and cutting ability.

PART #	DESCRIPTION	PRICE
0251-08M	Greenlee 8" High Leverage Diagonal Cutter	\$25.90



0652-11



0652-23



0652-28



0652-25

UTILITY KNIVES

We have a range of utility knives for the job. Choose your knife, whether it is the easy front-loading quick blade change utility knife (0652-11) or the folding knives with lock-back feature for safety (0652-23 and 0652-22). Both the Hawkbill (0652-28) with corrosion resistance stainless steel blade and the Titanium coated stainless blade knives have a lock-back for increased safety.

PART #	DESCRIPTION	PRICE
0652-11	Utility Knife - Molded for secure, comfortable grip, retractable 3-position blade for safety and convenience, pop-up holder for blade storage	\$7.50
9952-11	Replacement Blades (5pk)	3.25
0652-23	Folding Utility Knife - High finish stainless steel handle with molded features for added comfort in rugged environments, 10 extra blades	15.25
0652-22	Folding Utility Knife - High finish stainless steel handle with molded features for added comfort in rugged environments, 10 extra blades	10.55
0652-28	Hawkbill Knife - 440C Stainless Steel Blade and a contoured Rosewood Handle for a comfortable hand fit, Belt Clip for added convenience	18.40
0652-25	Titanium Knife - 40% serrated edge for tough cutting, aircraft-grade aluminum handle to endure extra rough handling, Belt Clip for added convenience	24.00



0351-06M



0451-10M



0154-12C

6" LONG NOSE SIDE CUTTING PLIERS

- Forged from chrome vanadium steel for greater durability and strength
- Cuts both solid and stranded copper wire
- Serrated jaws and laser-hardened cutting edges
- Through-hardened steel for longer life
- Rugged riveted construction for smooth precise action

PART #	DESCRIPTION	PRICE
0351-06M	6" Long Nose Side Cutting Pliers	\$19.35

CHANNEL LOCK PLIERS

- Precision-machined and through-hardened for consistent performance
- Right angled teeth for gripping in both directions
- Riveting process ensures joint integrity
- Wider grip design provides larger load bearing area

PART #	DESCRIPTION	PRICE
0451-10M	Channel Lock Pliers	\$21.25

ADJUSTABLE WRENCH

- Patented lightweight ergonomic design reduces user fatigue
- Tight tolerances for professional feel and smooth operation
- Wide capacity jaw design provides extra versatility
- Measuring scale - easy sizing
- Corrosion-resistant finish

PART #	DESCRIPTION	PRICE
0154-12C	Adjustable Wrench	\$41.75



GT-12



PA1900

NON-CONTACT VOLTAGE DETECTOR

- Automatic self-test verifies the integrity of the unit
- Use to detect voltage in outlets, lighting fixtures, circuit breakers, wires and cables
- Low battery indicator
- Lifetime Limited Warranty

PART #	DESCRIPTION	PRICE
GT-12A	Voltage Detector	\$17.75

CAN WRENCH

- Strips PVC insulation, outer jacket of AWG22/4 and 24/4 telephone cable, insulation of AWG 22 (.34 mm2) and AWG 24 (.20 mm2) wire
- Durable shock-resistant design
- 3/8" (9.5 mm) and 7/16" (11 mm) hex sockets for accessing panels

PART #	DESCRIPTION	PRICE
PA1900	Can Wrench	\$14.80



0253-02C

7pc. NUT DRIVER / SCREW DRIVER SETS

The sets have rugged hollow shafts and heavy duty construction for longer life. Handles and shafts marked for easy identification of nut driver size.

Nut Driver Set Contains: 3/16", 1/4", 5/16", 11/32", 3/8", 7/16", and 1/2" Nut Drivers with 3" Shank

Screw Driver Set Contains: 3/16"x 4", 3/16"x6" and 1/4"x4" Cabinet Tips, 1/4"x4" and 5/16"x6" Keystone Tip, #1x3" and #2x4" Phillips Tip

PART #	DESCRIPTION	PRICE
0253-02C	7pc. Nut Driver Set	\$53.25
0153-02C	7pc. Screw Driver Set	41.25



MK02

***Not for use with armored cable**

ROUND CABLE SLITTER

The Round Cable Slitter removes outer jackets and insulations from 4.5mm to 28.5mm O.D. Stripping action is both circumferential, then longitudinal for removal of insulation section at the end or mid-span of wires. Adjustable depth up to 3mm. Weight: 4.2oz, Dimensions: 135 x 40 x 15mm.

PART #	DESCRIPTION	PRICE
MK02	Slitter	\$35.95
39391	Spherical Cutting Replacement Blades	22.95



F1-114

MILLER ROUND CABLE SLITTER

The Miller Round Cable Slitters are manually operated cutting devices designed for fast, safe and precise jacket removal of PE, PVC and rubber jacket. The F1-114 is designed to strip cables from 4.5mm to 29mm Diameter. The F1-158 is designed to strip cables from 19mm to 40mm Diameter.

PART #	DESCRIPTION	PRICE
F1-114	Round Cable Slitter (4.5mm to 29mm diameter)	\$45.00
F1-158	Round Cable Slitter (19mm to 40mm diameter) (not pictured)	68.00
F1-231	1 Replacement Blade	9.65

Paladin Tools



PA1822

UNIVERSAL PALADIN SLITTER

Slit/Strip/Remove 0.18" -1.40" diameter 500-1200-MCM power/telecom round cables' rubber/PVC/nylon insulation. For mid-point taps. Cable support arm, stainless steel blade.

PART #	DESCRIPTION	PRICE
PA1822	Universal Paladin Slitter	\$25.99



F1-PST011



F1-ACS

ARMORED CABLE SLITTER AND CUTTER

This tool slits outer polyethylene jacket and armor in one operation. Performs longitudinal slitting and circumferential (ringing) for end stripping. Blade rotates 90° by activating blade lever, allowing easy mid-span preparation (ringing and splitting) – Replacement blades available. Adjusts from 8-28.6mm OD.

PART #	DESCRIPTION	PRICE
F1-ACS	Armored Cable Slitter	\$125.00
F1-CB251K	Replacement Blade	41.50
F1-PST011	2-in-1 Cutter with Ratchet Handle	25.00



FOD-2000

DROP CABLE SLITTER

The FOD-2000 Fiber Optic Drop Cable Slitter is a patent pending tool that simplifies the slitting of drop cable jackets at the end of the cable or mid-span. The FOD-2000 puts a slit on both sides of the jacket allowing easy access to the fiber or strength member.

PART #	DESCRIPTION	PRICE
FOD-2000	Drop Cable Slitter	\$39.50
FOD-RB25	Replacement Blade for the FOD-2000 (Pack of 25)	41.60



F1-SF1

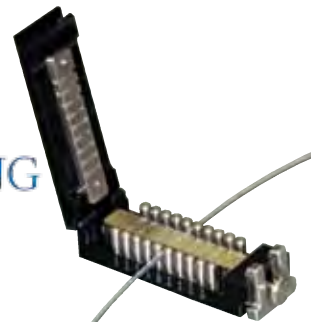


808060

SKINNY FINGERS

The Fiber Optic Connector Insertion/Extraction Tools are capable of reaching into very tight spaces to perform tasks. It has been designed to work with virtually all rectangular or square cross-section connectors.

PART #	DESCRIPTION	PRICE
F1-SF1	Extraction Tool	\$60.00
808060	Miller Extraction Tool	36.95



RST-000

CORNING RIBBON SPLITTING TOOL

The tool closes around the ribbon fibers, as the ribbon settles into the proper slot. With actuator depressed, the tool slides along a length of the ribbon, separating the length of ribbon that is needed into smaller ribbon counts. The tool has slots to separate the ribbon into the following smaller ribbon counts: 2/2, 2/4, 2/6, 4/4, 2/10, 4/8, 6/6, and 12/12.

PART #	DESCRIPTION	PRICE
RST-000	Corning Ribbon Splitting Tool	\$1,378.00



FOC-100

FOCUS™ REMOVAL TOOL

The Focus™ removal tool from Cable Prep® inserts and removes SC and LC fiber optic connectors without disturbing adjacent connectors, even when working on densely populated panels.

PART #	DESCRIPTION	PRICE
FOC-100	Focus Removal Tool	\$58.95

MILLER MID-SPAN ACCESS TOOL

The Miller Mid-Span Access Tool (MSAT-5) is used to quickly and easily access fibers in 1.9mm to 3mm buffer tubes in a mid-span location without damage to fiber. No blade adjustment is necessary, as the factory precisely mounts the blades in the tube slitting channels, resulting in consistent and accurate shaves. The tool design incorporates buffer tube size gauges on the tool body for ease of selecting proper tube slitting channel.

PART #	DESCRIPTION	PRICE
MSAT-5	Mid-Span Access Tool	\$75.00
80935	Replacement Blade (5pk)	15.25



DRAKA BUFFER TUBE ACCESS TOOL

This tool is designed for mid-span entry to fibers in a multiple of buffer tube sizes. The tool “shaves” only the tube wall to access the fibers providing safe, and reliable access. The tool kit includes interchangeable inserts supporting 2.5mm, 2.7mm and 3.0mm buffer tubes.

Includes: Tool, Carry Case, Inserts, Spare Blade and Spare Head Screw

PART #	DESCRIPTION	PRICE
20021562	Buffer Tube Access Tool	\$946.70



MILLER FIBER BUFFER TUBE AND DROP CABLE SLITTER

The 400 Series Kit is for mid-span and end slitting of fiber buffer tubes and fiber drop cable. Interchangeable color-coded head blocks matched to buffer tube or drop cable size. Standard kit contains tool body and 3 pairs of interchangeable heads all packed in a durable plastic carrying case. Block sizes, included in standard kit, slit the following cable sizes: 2.5 mm, 3.0 mm buffer tubes and 4.4 x 8.2 mm fiber drop cable.

PART #	DESCRIPTION	PRICE
80830	Fiber Buffer Tube and Drop Cable Slitter	\$395.50



MILLER MID-SPAN ENTRY TOOL FOR COMMSCOPE BRIGHTPATH

Designed for mid-span entry access CommScope BrightPath Self Supporting Figure 8 outdoor fiber drop cable. Tool has two shaving channels, one to remove the outer MPDE jacket and one to access the 4mm buffer tube fibers.

PART #	DESCRIPTION	PRICE
42555	Miller Drop Cable Stripper	\$219.50
37048	Replacement Blade for jacket and 4mm channel	43.95



MILLER MID-SPAN ACCESS TOOL

Tool can access fibers in 2.0mm, 2.5mm, and 3.0mm buffer tubes. Buffer tube size gauges are located on the tool body for ease of selecting proper tube slitting channel.

PART #	DESCRIPTION	PRICE
80785	Mid Span Tool	\$250.25
80794	Replacement Blade (1 set)	35.00



CORNING CABLE SYSTEMS MID-SPAN ACCESS TOOL

Cutting a buffer tube mid-span without damaging the optical fibers inside can be a challenge - unless you have this specialized tool. Simply attach the tool and pull it along the buffer tube to slit the tube safely.

PART #	DESCRIPTION	PRICE
OFT-000	For 2.4mm - 3.0mm Tubes CCS Mid-Access Tool	\$275.00
OFT-001	Replacement Blade for OFT-000	19.95
UAT-3000	For 5mm - 24mm Tubes Enhanced Universal Access Tool	845.00
UAT3-BLADES	Replacement Blade for UAT-3000	90.50



MSAT MICRO MID-SPAN ACCESS TOOL

Compact and user friendly tool provides quick and easy mid-span access to smaller buffer tubes without fiber damage.

PART #	DESCRIPTION	PRICE
81460	MSAT-Micro Mid Span Access Tool Body	\$309.50
81513	1.3mm MAST-Micro Mid Span Insert	65.00
81514	1.4mm Insert MAST-Micro Mid Span Insert	65.00
81515	1.5mm Insert MAST-Micro Mid Span Insert	65.00
81516	1.6mm Insert MAST-Micro Mid Span Insert	65.00
81517	1.7mm Insert MAST-Micro Mid Span Insert	65.00
81518	1.8mm Insert MAST-Micro Mid Span Insert	65.00



FIS SCRIBE TOOLS



FIS DELUXE DIAMOND SCRIBE

Housed in a deluxe metal casing. The Deluxe Diamond Scribe offers a retractable 60° cone point.

PART #	DESCRIPTION	PRICE 1-5	PRICE 6+
WO-1223	FIS Deluxe Diamond Scribe	\$17.95	\$15.95



FIS ECONOMY DIAMOND SCRIBE

This Economy Scribe has a 60° cone point and is housed in a rugged white plastic housing.

PART #	DESCRIPTION	PRICE 1-5	PRICE 6+
FO-90-C	FIS Economy Diamond Scribe	\$7.00	\$6.50



FIS SAPPHIRE SCRIBE

For a wider cutting surface, this scribe offers a 90° wedge. Housed in a deluxe metal casing.

PART #	DESCRIPTION	PRICE
FO-90-S	FIS Sapphire Scribe	\$19.95



FIS 90° WEDGE DIAMOND SCRIBE

Provides a wider cutting surface. The 90° Wedge Diamond Scribe is packaged in a rugged blue plastic housing.

PART #	DESCRIPTION	PRICE
FO-90-W	FIS 90° Wedge Diamond Scribe	\$35.00



FIS CARBIDE SCRIBE

This Carbide Scribe offers a wide cutting surface in a plastic pen-like housing.

PART #	DESCRIPTION	PRICE
F1-9773	FIS Carbide Scribe	\$19.95



MOLEX UNIVERSAL CLEAVE TOOL

The Molex Universal Cleave Tool is designed to provide a high quality cleave when connectorizing Molex fiber optic connectors. The hand held tool looks similar to a scribe, but cleaves with precise accuracy. *Use with Molex connectors only.*

PART #	DESCRIPTION	PRICE
8675-32000	Molex Universal Cleave Tool	\$375.00



IDEAL SCRIBE TOOLS

All three Ideal Scribes offer 30° beveled DualScribe™ reversible blades doubling the tools' useful life. Non-slip grips offer precise control during scribing. Clear safety caps protect blades when not in use.

PART #	DESCRIPTION	PRICE
45358	Sapphire Blade DualScribe™ (blue handle)	\$30.00
45357	Ruby Blade DualScribe™ (red handle)	30.00
45359	Carbide Blade DualScribe™ (black handle)	45.00



FIS FIBER OPTIC CRIMP TOOLS

Fiber optic connectors call for precision crimping which must meet non-optical disconnect requirements and increased pull strength demands. The FIS Crimp Tool is designed to successfully assemble a variety of connector styles for maximum optical performance and mechanical strength. The FIS Crimp Tool, part number F1-3227, contains 4 crimp sizes: .128, .137, .151 and .190 inches.

PART #	DESCRIPTION	PRICE
F1-3227	FIS Crimp Tool (Die and Handle) ST/FC/SC	\$35.00
F1-8888	FIS MT-RJ Crimp Tool (.151 round, .190 round)	110.00
F1-8825	FIS MU/LC Crimp Tool and Die (.120 round, .128 round)	75.00
F1-1302	FIS Crimp Tool Handle	30.00
PA-1330	Paladin SMA Triple Hex Tool and Die (.151, .178, .213)	55.00

F1-8825LM



FIS CRIMP TOOL DIES

PART #	DESCRIPTION	PRICE
F1-8825LM	FIS MU/LC Crimp Die (.120 Round, .128 Hex)	\$35.00
F1-3227M	FIS Crimp Tool Die (.128, .137, .151, .190)	29.95
PA-2051	Triple Hex Die (.068, .128, .178)	29.95

F1-3227M



ADDITIONAL CRIMP TOOLS

PART#	CONN. MFG	CONNECTOR TYPE	PRICE
F1-3227	FIS	ST	\$35.00
6365CT	3M	FC/SC	150.00
320103101	CCS	ST/FC/SC	215.00
PA-1330	Paladin	ST	55.00
86760-5000	Molex	SC	318.00



A



B



C



D

SAFETY GLOVES

PART #	DESCRIPTION	PRICE
F1-27505	Ruf-Flex Air (A) - Nylon shell, foam latex coated glove (Large)	\$4.95
F1-27356	Ninja Flex (B) - Nylon shell, latex coated glove (X-Large)	4.95
F1-123L	Work Right Gloves (C) (X-Large)	8.95
0358-13L	Greenlee Handyman Gloves (D) (Large)	12.75



0155-25A



0155-200



DW-100

POWER RETURN TAPE MEASURES

Rigid 1" wide nylon coated double sided blade. An easy to use Click Lock.

PART #	DESCRIPTION	PRICE
0155-25A	Greenlee Fiberglass Measuring Tape, 7.5 Meters	\$11.50

FIBERGLASS MEASURING TAPES

2-sided, 2 color tape features decimal feet and fractional inches.

PART #	DESCRIPTION	PRICE
0155-200	Greenlee Fiberglass Measuring Tape - 200 Feet	\$56.00

DURAWHEEL

The DuraWheel is ideal when you need to measure distances that are beyond the length of measuring tapes. Designed for rugged commercial use, the DW-PRO comes with a case, pistol grip brake and counter controls. Case sold separate with all other units.

PART #	DESCRIPTION	PRICE
DW-1000	DuraWheel (12.5" wheel diameter) (feet)	\$115.00
DW-1000M	DuraWheel (12.5" wheel diameter) (metric)	115.00
DW-PRO	DuraWheel Pro (12.5" wheel diameter) (feet)	159.00



GREENLEE FLEXIBLE LED FLASHLIGHT

- Small 9/32" head will illuminate tight spaces where other flashlights can not.
- Runs up to 1000 hours on two AA batteries (included)

PART #	DESCRIPTION	PRICE
FL2AAF	Flexible LED Flashlight	\$15.50



TRUE RMS CLAMP METER

True RMS for the most accurate measurement where harmonics are present. Quick and easy operation. Auto power shut off for longer battery life. Audible continuity and diode tests. Frequency measurement. Data hold to capture measurements; 4000 count LCD; includes 3 volt standard button battery. Lifetime limited warranty

PART #	DESCRIPTION	PRICE
CM-450	True RMS Clamp Meter	\$72.50



F1-9119



0158-12



FLHEAD



HEAVY DUTY TOOL BAG

PART #	DESCRIPTION	PRICE
F1-9119	Gatmouth Tool Bag	\$29.55
0158-12	18" Greenlee Heavy Duty Bag	45.00

GREENLEE HEAD LAMP

This Head Lamp has a battery life of 5 hours (High) - 12 hours (Low). 3-spot, diffuse and red diffuse with rotating beam angle adjustment. Includes: elastic head strap and rubber strap. Three AAA batteries are required and are not included.

PART #	DESCRIPTION	PRICE
FLHEAD	Greenlee Head Lamp	\$52.50



GREENLEE 68 PIECE DRILL DRIVER KIT

Made for the trade - All bits are professional grade and meet or exceed ASTM standards. Masonry drills have a hardened shank that is hammer drill rated for better impact driving. High speed drills are titanium nitride coated, so they last longer and self-center so they don't walk when drilling. Greenlee's bits and drills in the new Electricians Drill/Driver kit are made for the demands of the trade. Ease and convenience - All bits and drills in the kit have 1/4" Quick Change hex for fast, easy changeovers. Nut drivers are magnetic and fit most TapCon® fasteners. Kit also includes a 3" magnetic bit holder and quick release chuck with a precise fit and no play so the bit won't wobble when drilling.

PART #	DESCRIPTION	PRICE
DDKIT-1-68	68 Piece Drill Driver Kit	\$51.95



FITMINIGUN

SHRINK TUBE KIT

A complete, compact kit that includes a lightweight, portable heat gun and a variety of multicolored heat shrinkable tubing in six-inch cut pieces. Used for splicing, identification, cable repair.

PART #	DESCRIPTION	PRICE
FITMINIGUN	Portable Heat Gun Kit with variety pack (110V Only)	\$107.50
FIT221	Variety Pack Refill (60 - 6" cut pieces)	40.65



F1-5527

COLORED SHRINK TUBES

The 13mm and 26mm are quality shrink tubes that contain adhesive inside of the tubes.

PART #	DESCRIPTION	PRICE
F1-5527-GN	Green Shrink Tube (3/16")	39¢ /ft
F1-5527-RD	Red Shrink Tube (3/16")	39¢ /ft
F1-5527-BL	Black Shrink Tube (3/16")	39¢ /ft
F1-5527-YE	Yellow Shrink Tube (3/16")	39¢ /ft
F1-5527-13A	13mm Black Adhesive Shrink Tube	80¢ /ft
F1-5527-26A	26mm Black Adhesive Shrink Tube	\$1.75 /ft

F1-0911D



HEAT GUN

The FIS Heat Gun is designed to shrink splice protection sleeves or breakout kit shrink tube. The heat gun provides a variable temperature range adjustment, allowing the user to apply the required heat.

PART #	DESCRIPTION	PRICE
F1-0911D	FIS Digital Heat Gun 110V	\$45.00
F1-0912	FIS Heat Gun 220V	146.95



ALKALINE BATTERIES

PART #	DESCRIPTION	PRICE
7820357500	Premier 9-Volt Battery	\$1.75
7820457500	Premier "C" size Battery - 2 pack	1.60
7820487500	Premier "D" size Battery - 2 pack	2.25
7820497500	Premier "AA" size Battery - 4 pack	1.30
7820587500	Premier "AAA" size Battery - 4 pack	1.75



MAGNIFYING GLASSES

Protect your eyes and see fiber with ease with the dual purpose Magna-Focuser. These glasses magnify objects 2.5 times, providing a critical visual advantage which still allows user both hands free. Perfect for individuals who find it difficult to work with small parts.

PART #	DESCRIPTION	PRICE
F1-1105	Magna-Focuser	\$18.95



FIS EYE LOUPE SET

Set includes 2X, 3X, 5X, 7X and 10X magnifications, these eye loupes allow users to make preliminary inspection of connector mating surfaces for dirt and scratches. The five piece set is made of durable lightweight plastic which makes it an excellent value.

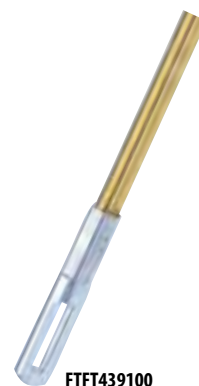
PART #	DESCRIPTION	PRICE
98722	Eye Loupe Set	\$5.95



438-2X



438-5H



FTFT439100

GREENLEE MAGNUM PRO FISH TAPES

All Greenlee MagnumPRO fish tapes include new features such as a rapid tape pay-out and rewind mechanism to help speed up the movement of the fish tape and a smaller fish eye with an offset bend for improved fishing ability. The MagnumPRO fish tapes also come with a viewing port that allows for visibility of the remaining tape in the case and gives the end-user the ability to remove jobsite debris quickly.

PART #	DESCRIPTION	PRICE
438-2X	25' x 1/4" Flat Steel Fish Tape	\$13.00
438-5H	50' x 1/8" Steel Fish Tap with Winder Case	22.95
FTS438-125BP	125' x 1/8" Steel Fish Tape	47.00
FTFT439100	100' x 3/16" Flexible Steel Fish Tape	95.00
FTFT540100	100' X .175" Fiberglass	200.00

GREENLEE FISH POLES

Greenlee has the most innovative fishing systems designed to perform on the jobsite. Whether you're going a few short feet or through many walls and bends, having Greenlee's Fish Pole products on the jobsite will make the job easier for any commercial, industrial or utility application. These lightweight, durable poles are designed for both pushing and pulling cables and allow for use in cramped spaces.

PART #	DESCRIPTION	PRICE
540-15	3/16" Glo Stix 15' Kit	\$50.75
11427	3/16" x 5' Glo Stix Replacement 15 ft Section	22.85
11426	Whisk Nose Tip	14.25
10497	Hook Nose Tip	9.75
10498	Bullet Nose Tip	7.55
FP12	12 Foot Fish Pole	51.75
FP18	18 Foot Fish Pole	84.65



CABLE CASTER

This hand held device enables installers to fire a dart with pull rope up to 50 ft. Monofilament line attached to the dart is projected out from a take-up reel on the Cable Caster. Pull strings or ropes can be attached to the monofilament line and reeled back to the installer.

PART #	DESCRIPTION	PRICE
F1-9112	Cable Caster Installation Tool	\$65.00
F1-6259	Cable Caster Darts (4 Pack)	8.25

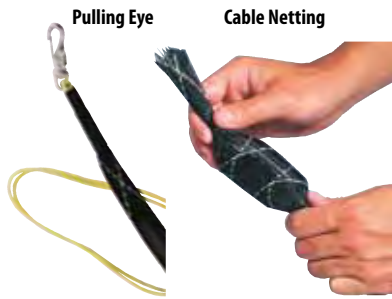


FIS CABLE DISPENSER

Cable Dispenser locks into an open position on padded, anti-skid legs that cannot collapse. A removable, 5/8" solid spindle, capable of holding over 200 lbs., allows for simple installation of cable reels up to 25" in diameter and 16" in width.

PART #	DESCRIPTION	PRICE
F1-6111	Cable Dispenser	\$155.00





F1-1001ORG

FIS FIBER OPTIC PULLING EYE AND CABLE NETTING

The FIS pulling eye will protect connectors while providing a pulling point with properly distributed tensions on cable assemblies. Available as a stand-alone component or installed by FIS on your custom cable assembly. The pulling eye has a rotating end clip to minimize cable twisting and the connectors are protected with cable netting.

PART #	DESCRIPTION	PRICE
F1-1001	FIS Pulling Eye Kit for Multifibers Yellow	\$10.95
F1-1001ORG	FIS Pulling Eye Kit for Multifibers Orange	10.95
F1-1001BR	FIS Pulling Eye Kit for Simplex and Duplex	5.95
F1-1001A	Pulling Eye Installed by FIS	19.95
F1-5700	Cable Netting (Expands up to 2", pulls down to 1/2")	99¢/ft



430-500

430

GREENLEE PULLING LINES

- Strong, lightweight nylon
- Center feed for fast payout without tangling
- Mildew-resistant, can be pulled into the run with the wire to provide a means to add wires later.

PART #	DESCRIPTION	PRICE
595	2,150' Center Feed Fish Line	\$35.95
604	2,200' Outside Feed Fish Line	31.75
430	6,500' Poly Line	54.95
430-500	500' Poly Line	8.50



TracerTape™

TRACERTAPE™

TracerTape™ is a functional product that is used for locating, pulling and measuring your duct and fiber. The TracerTape incorporates a solid corrosion resistant copper conductor which provides easy detection. Also available in 5,000 ft. reels. Call for double wire tracer tape.

PART #	DESCRIPTION	TENSILE/LBS.	PRICE
WPT1250	3,000 ft. Single Wire Reel	1,250 lbs.	\$260.00

POLYESTER FIBER PULL TAPE (NOT PICTURED)

This product is available with a silicone lubricant, which is comparable with the lubricant used in the manufacturing of Innerduct, and greatly reduces the possibility of burn-through. The tapes are available with printed sequential footage markings for accurate measurements. Also available in 3,000 and 5,000 ft. reels.

PART #	DESCRIPTION	TENSILE/LBS.	PRICE
WP1250-500	500 ft. Metal Spool	1,250 lbs.	\$38.55
WP1250-1	1,000 ft. Wooden Reel	1,250 lbs.	53.00

TLF001J



CABLE PULLING LUBRICANT

Techlube FO (fiber optic) pulling lubricant is a high performance, pourable liquid polymer that was engineered to meet the special requirements of pulling innerduct, communications, coaxial and fiber optic cables. Techlube has superior friction reduction capabilities that make it an excellent choice for long distance and/or difficult placing applications.

PART #	DESCRIPTION	PRICE
TLF001J	1 Gallon Jug Cable Pulling Lubricant	\$25.00

E45401250



TYCO LUBRICANT

This Tyco lubricant can be used with Raychem Rayplate Duct Sealing System (RDSS). Includes foam applicator top for easy distribution onto cable avoiding waste and mess.

PART #	DESCRIPTION	PRICE
E45401250	Tyco Lubricant for RDSS with applicator foam	\$5.75

CLR-5



GREENLEE CABLE LUBE

- Designed for use within electrical or datacom cable pulls. Clear and colorless for quick, easy clean-up
- Excellent lubricity for fast pulls (.27-.29 COF)
- Environmentally safe, non-hazardous, non-toxic and non-corrosive
- Easy to apply either by hand, brush or pump

PART #	DESCRIPTION	PRICE
CLR-5	5 Gallon Bucket	\$57.95



F1-Alum



F1-Flex

F1-Dome

Custom Prints Available



SIGNS/POSTS

Baked enamel aluminum sign with clear protective coat forms extra UV and fade resistance. Fiberglass flexible marker post, 6ft, orange, with 2.875" x 13" vinyl/teldar label applied. No anchors are included. Dome marker post, 6ft, orange cap printed with black graphics.

PART #	DESCRIPTION	PRICE
F1-Alum	Aluminum Sign, 9" x 12", black on orange	\$19.95
F1-Flex	Flexible Line Marker Post, 3" x 6', orange	21.95
F1-Dome	Domed Marker Post, 3" x 6', orange cap, white pipe	25.95

WARNING LABELS

Warning labels are available from FIS in a variety of sizes and colors with many standard logos offered. Selection includes Wrap Around, Tie On, Sticky Back and Write-On. Call for Custom Labels.

PART #	DESCRIPTION	PRICE
F1-0099-SF	8" Long Wrap Around (Black on Orange) (A)	\$1.25
F1-0094F	4" Long Wrap Around (Black on Orange) (B)	1.25
F1-0100SF	3-7/8" x 1-3/4" Tie On (Black on Orange-20pk) (C)	13.00
F1-0100SL	3-7/8" x 1-3/4" Tie On with self laminating flap (20-pk) (D)	13.60
F1-0095	Write-On Cover All Tag (Black on Yellow-25pk) (E)	18.75
F1-0099F	2-3/4" x 4" Sticky Back (Black on Orange) (F)	50¢
F1-0096F	3-1/4" x 1-3/4" Sticky Back (Black on Yellow) (G)	50¢
F1-0092	2-3/4" x 5" Sticky Back (Black on Yellow) (Same Text as F and G)	60¢
F1-3801	Outdoor Durable Permanent Black Marker (Not Pictured)	1.25

CABLE CLIPPER LABELS

Extruded outdoor-durable black PVC cable marker clips over cable. Fits cable diameters 0.5" to 1.0". Additional size available for 0.25" diameter. Secured to cable with urethane adhesive strip. Labels available in a variety of colors to include your company name, logo, and emergency phone numbers. Background is brightly colored with Arial font black letters. Outdoor durable, minimum 10 years. Easy to read from ground, text height approximately 0.75" to 1". Standard size clipper is 6" length.

PART #	DESCRIPTION	PRICE
F1-CC	Clips with Reflective Laminated Label Applied. 6" Length. (generic print)	\$4.60

BURIED CABLE MARKER TAPES

Protect and locate buried fiber optic cable by placing buried marker tape above cable. Tape is 3" wide continuous strip labeled "Caution, Fiber Optic Line Buried Below." Available in detectable and non-detectable varieties.

PART #	DESCRIPTION	PRICE
551165	3" x 1000' Non-Detectable Terra Tape	\$10.65
F1-6508	3" x 1000' Detectable Tape (metallic material)	22.95

REFLECTIVE NUMBER AND LETTER KITS

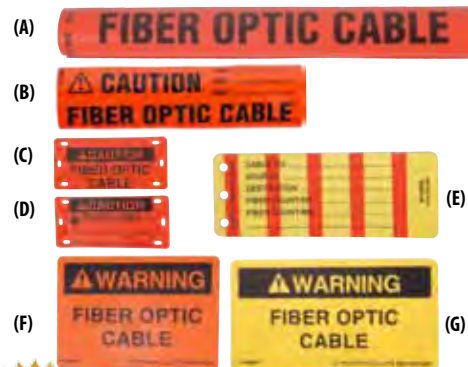
Reflective Number and Letter Kits are an excellent solution for marking and labeling your field assets. These letters are highly reflective, you can easily see them in all weather and at all times of day. Laminated for extra protection against UV rays, abrasion and chemicals, these durable 3M Scotchlite™ reflective labels are available in convenient kits that contain 25 each A-Z, 25 each 0-9, 25 each dash and blank and a handy storage case. Stock color is Black character on orange reflective background. Other colors are available.

PART #	DESCRIPTION	PRICE
F1-RKIT	Reflective Labeling Kit	\$135.00

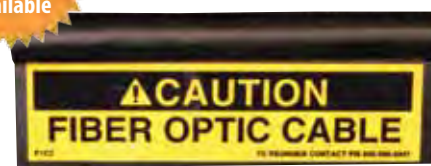
SOILMARKERS

Clearly identify vulnerable underground assets with durable ground-level markers. Made of long-lasting and damage-resistant plastic, soil markers are perfect for urban, high-traffic, or other locations where posts and signs can't be used. These rugged markers can be walked on, driven over, or mowed over. 7" disk with 13" stake included.

PART #	DESCRIPTION	PRICE
SOILMARKER	7" disk with 13" Stake	\$11.75
SOILMARKERS5	7" disk with 13" Stainless Steel Stake	33.50



Custom Sizes and Prints Available



F1-CC

551165



F1-RKIT



Rhino 5200



DYMO HAND HELD ELECTRONIC LABELERS

Dymo RhinoPro 5000 and 6000 heavy duty labeling tool provides a portable printer that's easy to use and affordable. Exclusive "Hot Key" functionality puts the power of wire and cable wrapping, patch panel, terminal block, fixed length, serialization and vertical printing at your fingertips. Polyester permanent tape is 18 ft. and nylon tape 11.5 ft. in length. Dimensions: 4.5"W x 2.7"D x 8.3"H, Weight: 1.14 lbs. Warranty: Limited One Year.

PART #	DESCRIPTION	PRICE
1734520	Rhino 6000 Label Printer Kit with Hard Case	\$315.00
1734519	Rhino 6000 Label Printer Kit - No Carry Case	226.00
1755749	Rhino 5200 Label Printer Kit - No Carry Case	169.00
1756589	Rhino 5200 Label Printer Kit - with Hard Case	219.00
1759050	Rhino 6000 Label Printer with Irwin Tool Kit	226.00
DY18484	3/4" White Polyester Permanent Tape. Best on Smooth, Flat or Textured Surface	17.99
DY18488	1/2" White Flexible Nylon Tape. Best on Wire, Cable and All Surfaces	17.99
DY18489	3/4" White Flexible Nylon Tape. Best on Wire, Cable and All Surfaces	17.99



KMM-09

CABLE MARKER TAPE DISPENSER

A dispenser holding 10 rolls of tape, numbered 0-9, gives you the ability to tag patch cables in your fiber optic system for easy identification. The 0-9 rolls of tape may be purchased under a separate part number. **Replace "X" with desired number 0-9 for replacements.**

PART #	DESCRIPTION	PRICE
KMM-09	Wire Marker Dispenser and Tape 0-9	\$16.85
PM-D09	Tape Roll 0-9	15.00
PMD-X	Replacement Reel	1.65

Connector and Cable Clamps



CONNECTOR AND CABLE CLAMPS

The ability to secure a connector or cable to a desired location is possible with this adhesive backed clamp. Re-enterrable and adjustable up to 5/8".

PART #	DESCRIPTION	PRICE
F1-6209	Connector and Cable Clamps	.40¢
F1-13187	Cable Holder (package of 10)	6.95

Velcro® Roll



75' Velcro® ROLL

This Velcro dispenses just like a tape roll and can be cut to the desired length. The center core of the roll has a male/female Velcro patch attached, which enables the roll to be affixed to any ladder or steel surface for convenient dispensing.

PART #	DESCRIPTION	PRICE
F1-VROLL	75' Velcro® Roll 3/4" Black with Center Core	\$23.95

Expandable Fiber Bracket



EXPANDABLE FIBER BRACKET

Designed to hold up to six 3.0mm fiber optic cables, this bracket provides expansion capabilities to fiber optic systems. Made from flame retardant nylon, cables snap into grooves without damaging the fiber.

PART #	DESCRIPTION	PRICE
F1-9124	Expandable Fiber Bracket (Package of 10)	\$2.75



MB4A10H4



MB4A0H4

CABLE TIE MOUNTING BASES

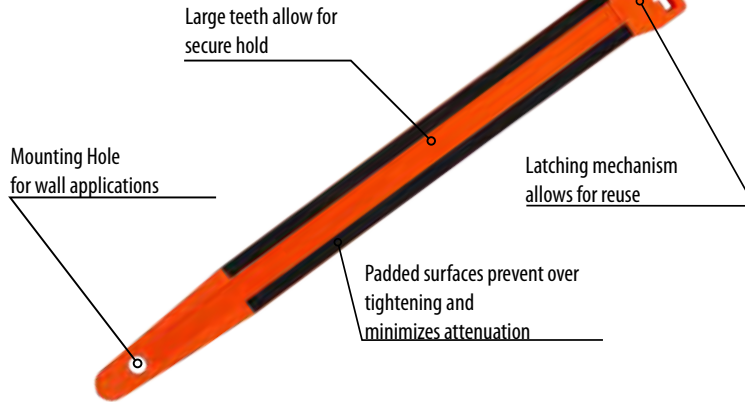
Mounting bases are used in conjunction with cable ties to stabilize and secure wiring bundles, both indoors and outdoors. These mounting bases are secured using a rubber based adhesive. Accommodates T18 through T50 series cable ties. Cable ties not included.

PART #	DESCRIPTION	PRICE
MB4A10H4	Cable Tie Mounting Bases, Rubber Based Adhesive, T18-T50 Cable tie series, White, 10/Package	\$5.95
MB4A0H4	Cable Tie Mounting Bases, Rubber Based Adhesive, T18-T50 Cable tie series, Black, 10/Package	5.75

1,000s of Applications!



• Keep racks neat and clean



• Can mount to wall for easy placement

It's easy for installers to over-cinch thin zip ties, resulting in macrobends that attenuate fiber optic cables. With copper cables, the weight of cables pressing against thin ties can damage or deform them enough to create crosstalk issues. To solve these problems, FIS has created the "Universal Cable Strap," the widest cable tie designed for communications cable. A padded version is available for fiber optic cable.

FIS Tie Wraps are 1" wide and 12" long and are available with or without protective foam padding. Sold in convenient packs of 6, 50, 100 pieces. Replace "X" with color of your choice: AQ=Aqua, BK=Black, BL=Blue, GR=Green, OR=Orange, YE=Yellow

FIS FIBER OPTIC TIE WRAPS

PART #	DESCRIPTION	PRICE
FOTW-X-6	Tie Wrap with Foam (Pack of 6)	\$9.95
FOTW-X-50	Tie Wrap with Foam (Pack of 50)	72.50
FOTW-X-100	Tie Wrap with Foam (Pack of 100)	125.00

FIS BASIC TIE WRAPS

PART #	DESCRIPTION	PRICE
BTW-X-6	Basic Tie Wrap (Pack of 6)	\$5.40
BTW-X-50	Basic Tie Wrap (Pack of 50)	39.50
BTW-X-100	Basic Tie Wrap (Pack of 100)	67.50

TIE WRAPS

Available from FIS are two sizes of tie wraps. The 4" long by 1/8" wide wrap is excellent for securing simplex or duplex cable. The 7" long by 3/16" wide wrap is designed to handle wrap diameters up to 1-1/4".

PART #	DESCRIPTION	PRICE
T185	4" Tie Wraps (100 pk)	\$2.25
T505	7" Tie Wraps (100 pk)	3.25



T185

ONE-WRAP® TIE WRAPS

Protect your Fiber Optic and Category 5 cable from over cinching with velcro tie wraps. These low-cost wraps are reusable and are available in red and black. Now provided with cutout for screw mount support.

PART #	DESCRIPTION	PRICE
CT733	Red Tie Wrap 1"x 8" (75 pk)	\$26.95
CT255	Black Tie Wrap 1"x 8" (75 pk)	26.95
CT-3105	Black Tie Wrap 3/4"x 5" (25 pk)	9.95
CT-3108	Black Tie Wrap 1"x 8" (25 pk)	9.95
CT-3012	Black Tie Wrap 1"x 12" (25 pk)	12.00



CT733

CT255

CABLE CLAMPS

Use the Cable Clamp to organize copper or fiber cords and bulk cable. These clamps are available in 3 sizes: small (holding up to 1" in diameter), medium (up to 2") and large (up to 3").

PART #	DESCRIPTION	PRICE
CCS-0601	Small Cable Clamp (color red)	.85¢
CCS-0102	Medium Cable Clamp (color white)	\$1.20
CCS-0201	Large Cable Clamp (color blue)	1.60



CCS-0601

CCS-0201



Visit www.fiberinstrumentsales.com
For More Details

FIBER OPTIC SPLICE TRAILER

The Splice Trailer protects the splicing operation from weather and debris, while providing the technician with convenience and comfort in the field. The trailer features a 6'6" interior height with insulated walls and ceilings. The entrance door is located at the rear of the trailer to provide maximum workspace in the interior. Two fiber optic cable doors (one in the back and one on the curb side) enable technicians to work on outdoor lines in an inside environment. Features: New Linoleum floor, rear step, heat and air conditioning units, 25 aluminum cabinets to store items, electric brakes, fluorescent lighting, a generator with an inside fuel gauge for added convenience and a full length roadside countertop. The ADJ front pintle hitch easily connects to the pulling vehicle, and more. Call your sales associate for additional specifications. FIS will arrange transportation anywhere in the world. Delivery not included in price. **Outside Dimensions (16'10" L x 9' 1" W x 9' 7" H) (Length includes hitch)**

PART #	DESCRIPTION	PRICE
F1-9798NN	Fiber Optic Splice Trailer	\$23,625.00



F1-CT36

FIS PORTABLE TABLE

These tables are perfect for splicing and terminating fiber optic cable. Tables weigh approximately 15-25lbs. The Work Table Kit is sold separately and includes a lamp (110VAC), magnifier, universal clamp, and carrying case.

PART #	DESCRIPTION	PRICE
F1-CT36	Work Table (22"x28")	\$295.00
F1-CT53	Work Table (22"x44")	395.00
F1-CT70	Work Table (22"x58")	455.00
FIS-AK	Work Table Kit (see description above)	258.00



F1-97976GF

FIS SPLICE TENTS

Splice tents for outside field applications are made of tough urethane coated polyester fabric. FIS offers the standard splice tents and the new Space Saver splice tents. Space Savers have approximately 25% shorter folded length for storage and can be set over a cable or pipe.

PART #	DESCRIPTION	PRICE
F1-97976GF	FIS Tent (6'L x 6'W x 6'8"H) with floor	\$706.00
F1-97978GF	FIS Tent (8'L x 8'W x 7'8"H) with floor	976.00
F1-97976GS	FIS Space Saver Tent (6'L x 6'W x 6'8"H) without floor	550.00
F1-97978GS	FIS Space Saver Tent (8'L x 8'W x 7'8"H) without floor	765.00
F1-979710GS	FIS Space Saver Tent (10'L x 8'W x 8'4"H) without floor	979.00



501

Marker Disks Available

TEMPO TRACKER II

With its inductive signal application, the Tracker II can be used on active or dead systems. Now you can trace the path and determine the depth of wires and metallic pipes without having to deactivate the systems. High frequency transmitter provides range up to 4000 feet (1219 m) and depths to 7 ft. (2 m). The transmitter offers three methods of connection: direct, inductive coupler, or inductive antenna.

PART #	DESCRIPTION	PRICE
501	TRACKER II	\$748.00

TEMPO MARKER-MATE

Marker-Mate™ Electronic Marker Locator is designed to locate all brands of buried, electronic markers, including the patented Tempo Omni Marker™, and Uni Marker™. This locator sets an industry standard with the capability of detecting all seven application-based electronic marker types simultaneously (power, water, sanitary, telephone, gas, cable TV, non-potable water.) Marker disks available.

PART #	DESCRIPTION	PRICE
EML100	Marker Mate	\$805.00



EML100

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- Networking
- Datacom
- Industry

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Turning Stone Resort Casino
Verona, NY



This family of enclosures offers a wide variety of applications from aerial to direct burial installations. Coyote Classic Enclosure styles utilize the Tape and C-Cement sealing technology which experienced installers of copper and fiber optics are familiar. With splice count options from 24-288 splices, the Coyote Classic line offers another set of options for a complete PLP offering.



Runt 8006671

PREFORMED LINE PRODUCTS – RUNT AND PUP CLOSURES

(Splice Trays NOT Included)

PART #	DESCRIPTION	PRICE
8006671	Runt Closure (8.5" x 3" x 14.75"), holds 2 splice trays, up to 24 single fiber splices	\$127.85
8006794	Expanded Runt (8.5" x 4.25" x 14.75") holds 4 splice trays, up to 48 single fiber splices	170.25
8006916	Runt with Cross Connect (Adapter Panels Sold Separately - call FIS for part numbers)	278.45
8006621	PUP Closure (6" x 17") Unitube Version, holds up to 4 splice trays/48 single fiber splices	189.15
8006622	PUP Closure (6" x 17") Buffer Tube Version, holds up to 4 splice trays/48 single fiber splices	189.15
8006951	In-Line Runt Closure (10" x 3.5" x 17.5") holds 2 splice trays, up to 24 single fiber splices, includes (4) 2-Hole	127.85



8006560

PREFORMED LINE PRODUCTS – COYOTE CLOSURES

(Splice Trays NOT Included)

PART #	DESCRIPTION	PRICE
8006560	Coyote (6.5" x 22") with buffer tube storage, 6-port endplate, up to 4 trays/144 fibers	\$302.90
8006540	Coyote (6.5" x 22") for Unitube cable, 6-port endplate, up to 4 trays/144 fibers	302.90
8006561	Coyote (8.5" x 22") with buffer tube storage, 6-port endplate, up to 8 trays/288 fibers	550.00

Coyote® DTC



- Closure specifically designed for Round or Flat Drop Cable
- Includes four cable entry ports and grommets for drop cable
- Max Splice Capacity - 16 single fusion / (3) 12 ribbon fibers
- In-Line or Butt application
- Compact Size: 9.1" x 7.6" x 1.7"
- Re-enterable and Re-usable
- Designed for direct buried, below grade, pole/wall mount or aerial applications

Coyote® LCC



- Closure specifically designed for Round or Flat Drop Cable
- Max Splice Capacity - 24 single fusion / 72 ribbon fibers
- In-Line or Butt application
- Compact Size: 17" x 7" x 2.5"
- Easy re-entry and re-usable
- Designed for direct buried, below grade, pole/wall mount or aerial applications

Coyote® In-Line Runt



- In-Line or Butt application
- Max Splice Capacity - 80 single fusion / 288 ribbon fibers
- Capacity for two LITE-GRIP short trays
- Compact Size: 10" x 3.5" x 17.5"
- Re-enterable and Re-usable - No special tools needed
- Simple-to-use grommet sealing system with four grommet ports

INCLUDED COMPONENTS

PART #	DESCRIPTION	SPLICE TRAYS	GROMETS	PRICE
COYDTC-001	COYOTE® DTC	(2) single fiber and 1 Ribbon LiteGrip Splice Blocks	(4) Round/Flate Drop	\$34.00
COYLCCF001	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(1) 7-hole, (1) 12-hole	41.70
COYLCCF002	LCC for Single Fusion Splices with Strength member Bobbin Kit	(3) single fiber LiteGrip Splice Blocks	(1) 7-hole, (1) 12-hole	46.30
COYLCCF004	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(2) 7-hole	41.70
COYLCCF005	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(2) 2-hole	41.70
COYLCCF006	LCC for Single Fusion Splices	(3) single fiber LiteGrip Splice Blocks	(2) 4-hole	41.70



COY1-001

**Grommet Cable Entry for
COYOTE Dome Enclosures**



**COYOTE Dome
6.5" x 22"
8006877**



**PLP Ground Level
Enclosure**

PART #	DESCRIPTION	INCLUDED COMPONENTS		
		SPLICE TRAYS	GROMMETS	PRICE
COY1-001	Coyote One Closure, 16" x 10" x 5.7", 3-section endplate, holds 2 Lite-Grip or 5 low profile short splice trays		8003663 8003676	\$159.00
8006877	Dome (6.5" x 22") 4-section endplate, holds 3 Lite-Grip or 6 low profile long splice trays		8003701	289.00
8006944	Dome (6.5" x 17") 4-section endplate, holds 3 Lite-Grip or 6 low profile short splice trays		8003701	180.00
F1-6944RB	6.5" x 17" COYOTE® Dome for Ribbon Fiber	(1) LGSTR144 for 12 ribbons	8003701	425.00
F1-6877S	6.5" x 22" COYOTE® Dome for Buffer Tube (Loose Tube)	(1) LGSTS40 for 40 fibers	8003701	450.00
80061055	9.5" x 28" Dome Loose 7-section endplate, holds 7 Lite-Grip or 13 low profile long splice trays		8003692 8003693	390.00
800013691	Dome 9.5" x 19", 7-section endplate, holds 6 Lite-Grip or 12 low profile short splice trays		8003692 8003693	329.10
COYGLC-F1B-000	COYOTE GLC Universal Kit with Base (Buffer Tube/Ribbon - up to 2 trays)			360.00
COYGLC-F2B-000	COYOTE GLC High Capacity Kit with Base (Buffer Tube/Ribbon - up to 6 trays)			337.50
COYGLC-F3B-000	COYOTE GLC Cross Connect Kit with Base (Unloaded)			382.00

Grommets for New Breed of COYOTE Closures

PRICE	8003701	8003691	8003692	8003693	8003694	8003663	8003664	8003665	8003676	8003677	8003796
1-9 \$11.25 Each											
10+ \$10.50 Each											
Hole Range (in)	.42-.60 in. .60-.85 in	.42-.60 in.	.60-.85 in	.85-1.0 in	1.0-1.25 in.	.42-.60 in.	.30-.43 in.	.125-.25 in. and Flat Drop	.42-.60 in .125-.25 in. and Flat Drop	.125-.25 in. and Flat Drop	.125-.25 in. Flat Drop Only

PREFORMED LINE PRODUCTS – SPLICE TRAYS

PART #	DESCRIPTION	PRICE
LGSTS16	Lite Grip Splice Tray Kit, Short Tray, includes 2 splice blocks to support up to 16 Single Fusion Splices	\$19.30
LGSTS40	Lite Grip Splice Tray Kit, Long Tray, includes 5 splice blocks to support up to 40 Single Fusion Splices	25.40
80806033	12-count splice tray for Runt, PUP and Coyote Dome Closures	22.50
80807701	12-Count Low Profile Short Tray with Splice Block	22.50
8001127	36 Count Low Profile Long Tray with Splice Block	41.10
80805110	36-count splice long tray for Coyote Closure (8006560/8006540/8006561/8006541)	34.35
80805514	36-count splice tray for Coyote Dome (8006878/8006877)	41.10
80809958	24 Count short tray	21.80
80808945	Lite Grip Tray 40 Count	22.55



PREFORMED LINE PRODUCTS – OSP ACCESSORIES

PART #	DESCRIPTION	PRICE
8003832	Aerial Mounting Bracket for LCC	\$7.50
8003678	Aerial hanger bracket for Dome Closure	29.00
8003325	Adjustable aerial hanger bracket for PUP and Coyote Closures	24.65
8003467	Aerial hanger bracket for Runt Closure	24.65
8003571	Universal Mounting Bracket for Runt Closure	22.10
80805105	Three section endplate, 6 cable ports for Coyote(3) @ 3/4" (3) @ 7/8"	80.65
80805739	Three section endplate, 4 cable ports for Coyote(2) @ 1" (2) @ 1.25"	89.00
80805260	Blank endplate for Coyote Closure	34.55
80802567	LOCK-TAPE sealant 12ft roll	5.20
80802377	C-cement, 4oz can (Domestic ground shipment only)	5.25
8003663	2-entry grommet for .42-.60" port for Corning SST Cable	11.25
8003609	3-entry grommet for 7/8" port for Corning SST Cable	10.90
8003610	4-entry grommet for 1" port for Corning SST Cable	10.90



TYCO/RAYCHEM FOSC 450 FIBER OPTIC GEL CLOSURE



- Available in three sizes 8", 10" or 11.5" diameter
- Splice trays are hinged for direct access to any splice without disturbing other trays
- Can be used in aerial and burial conditions
- Single-Ended design butt closure with gel sealing technology - no heat shrink
- Gel seal automatically adjusts to cable size and shape without tools
- **Splice trays not included**

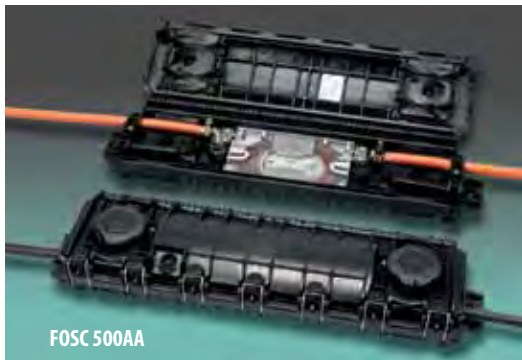
Closure	A4	B6	D6
Dimensions (inch) (Including Clamp)	8.5"	10"	12"
Length	19"	21"	30"

Splice Capacity	A4	B6	D6
Number of Trays	4	6	8
Single Fiber	96	144	768
Ribbon (12F)	144	288	1152
Cable Ports	4 Pound	6 Pound	6 Pound

A4: 2 small ports, each for cables .3-.9 inch diameter., 2 large ports for cable .4-1.1 inch diameter
 B6 - D6: 6 ports, each for cable .35-1.0 inch diameter

PART #	DESCRIPTION	PRICE
FOSC450A42NT0A1V	Tyco "A" Closure, 4 round ports, holds up to 48 splices (8"W x 19"L)	\$185.00
FOSC450B66NT0B3V	Tyco "B" Closure, 6 round ports, holds up to 144 splices (10"W x 24"L)	285.00
FOSC450D66NT0D3V	Tyco "D" Closure, 6 round ports, holds up to 768 splices (11.5"W x 30"L)	445.00

TYCO/RAYCHEM FOSC 500AA SLIM IN-LINE CLOSURE



- 2 cable ports are provided at each side of the closure
- Butt or inline splice closure with gel sealing technology
- Holds up to 24 single fiber splices
- Compatible with most existing cable constructions (loose tube, central core)
- Splice tray included

PART #	DESCRIPTION	PRICE
FOSC500AAL24LTGV	Raychem Closure, Holds 24 Single Fiber Splices, for Loose Tube Cable with 24ct Splice Tray Included	\$162.00



FOSC-ACC-A-24



FOSC-ACC-B-24



FOSC-ACC-D-72

TYCO/RAYCHEM ACCESSORIES

Raychem splice trays are manufactured for specific style closures. Be sure to match the type of closure to correct splice tray. Trays range from 12 count to 72 count single fiber splices.

PART #	DESCRIPTION	PRICE	PART #	DESCRIPTION	PRICE
FOSC-ACC-A-12	Raychem Splice Tray for "A" Closure, 12 Count Capacity	\$13.50	FOSC-ACC-D-72	Raychem Splice Tray for "D" Closure, 72 Count Capacity	\$35.00
FOSC-ACC-A-24	Raychem Splice Tray for "A" Closure, 24 Count Capacity	16.25	FOSC-ACC-CABLESEAL1NT	Raychem Cable Sealing Kit for 1 round port cable	22.95
FOSC-ACC-B-12	Raychem Splice Tray for "B" Closure, 12 Count Capacity	16.25	FOSC-ACCDBASKETTALL	Raychem Fiber Basket Holder	29.25
FOSC-ACC-B-24	Raychem Splice Tray for "B" Closure, 24 Count Capacity	18.95	SMOUV-112001	Raychem 60mm Splice Sleeve (100pk)	28.00
FOSC-ACC-D-36	Raychem Splice Tray for "D" Closure, 36 Count Capacity	31.50	SMOUV-112002	Raychem 45mm Splice Sleeve (100pk)	28.00

PART #	DESCRIPTION	PRICE
FOSC-ACC-A-AERIALCLAMPS	(2) Hanger Brackets and Clamps, (2) Snaplock Clamps, (2) Lashing Straps for FOSC450 Closures	\$13.50
FOSC-ACC-A-WALLPOLEMOUNT	FOSC450 Closure Wall/Pole Mount Hardware	16.25
FOSC-ACC-B-LASHINGSTRAPS	(2) Metallic Lashing Straps, (2) Nylon Lashing Straps and (4) Cable Spacers for FOSC450 Closures	16.25

CHANNELL GREEN HORNET - Easily Re-Enterable – No Special Tools Required

Green Hornet is a fiber optic butt splice configuration closure series that offers a simple, easy and customized solution for multiple applications in FTTX networks. Fully environmentally sealed, the Green Hornet offers unbeatable protection.

Key Features

- High drop density
- Environmentally sealed/air and water tight
- Impact resistant, solvent resistant, UV resistant
- Simple, easy to use design
- Splice trays are hinged, stackable and removable
- Tray design accommodates single and mass fusion splices as well as mechanical splices
- Each tray holds 24 single stacked fusion splices or 48 double stacked
- Pole or wall mount. underground vault. or aerial



G9L20S2F1B0G1A00



G6L182F1B0G1A00



CHANNELL GREEN HORNET G6 ENCLOSURE

PART #	DESCRIPTION	PRICE
G6L182F1B0G1A00	Channell Green Hornet G6 Enclosure, Accommodates up to 96 Fibers, 6" diameter, 18" dome Includes (1) 24 Fiber Splice Tray, (1) Main Oval Port Grommet, Air Valve for Flash Testing and Ground Lug. Holds up to (4) 24 Fiber Splice Trays	\$246.70

CHANNELL GREEN HORNET G9 ENCLOSURE

PART #	DESCRIPTION	PRICE
G9L20S2F1B0G1A00	Channell Green Hornet G9 Enclosure, Accommodates up to 144 Fibers, 9" diameter, 20" dome Includes (1) 24 Fiber Splice Tray, (1) Main Oval Port Grommet, Air Valve for Flash Testing and Ground Lug. Holds up to (6) 24 Fiber Splice Trays	\$354.00



CAS00567



BR01587



GR03106407-I



GR03116213-I



GR06116101-34-I

GREEN HORNET ENCLOSURE ACCESSORIES

PART #	DESCRIPTION	PRICE
CAS00567	24 Fiber Splice Tray and Cover	\$18.40
BR01292	Wall/Pole Mounting Bracket	15.60
BR01587	Aerial Mounting Bracket	21.30
GR03106407-I	Main Oval Port Grommet, G5 and G6	24.20
GR03106161-I	Branch Port Grommet, G5 and G6	9.90
GR16000672-I	Branch Port Grommet, G9	17.70
GR03106101-1250-I	Slotted Grommet, G6 and G9	3.24
GR06116101-34-I	Distribution/Drop Cable Grommet, G5, G6 and G9, .188"-.250"	2.80
GR06116101-45-I	Distribution/Drop Cable Grommet, G5, G6 and G9, .250"-.312"	2.80
GR06116101-56-I	Distribution/Drop Cable Grommet, G5, G6 and G9, .312"-.375"	2.80
GR06116101-67-I	Distribution/Drop Cable Grommet, G5, G6 and G9, .375"-.438"	2.80
GR06116101-78-I	Distribution/Drop Cable Grommet, G5, G6 and G9, .438"-.500"	2.80
GR06116101-89-I	Distribution/Drop Cable Grommet, G5, G6 and G9, .500"-.562"	2.80



3M OUTSIDE PLANT CLOSURES



2178XSBEGET



2178 Series



FDT08S



2524-FT



2522 without splice chips

3M 2178 SERIES CLOSURES (SPLICE TRAYS NOT INCLUDED)

The 3M™ Fiber Optic Splice Closure 2178 family provides excellent system flexibility for both existing and new fiber deployments. Products in the 2178 family are industry-proven and comply with appropriate UL and Telcordia standards. The flexible design and common accessories allow you to maintain a reduced inventory, saving time and money. The 2178 family accommodates most splicing configurations (inline or butt). All of the closures in the 2178 family feature tough, rigid non-filled closures tested under harsh, real-world situations to stand up to severe conditions of moisture, vibration and temperature extremes.

PART #	DESCRIPTION	PRICE
2178-XSBEGOT	Compact Splice Case (14.5"L x 10"W x 4.6"H), 3 cable ports, butt splice only, use 2532 splice tray	\$135.00
2178-S	Small Splice Case (21.9"L x 8.5"W x 4.7"H), up to 96 splices, use 2522/2523 splice trays	235.00
2178-LS	Standard Splice Case (21.9"L x 8.5"W x 8"H), up to 192 splices, use 2522/2523/2524FT trays	275.00
2178-LL	Large Splice Case (21.9"L x 8.5"W x 11.3"H), up to 312 splices, use 2522/2523/2524FT trays	310.00

3M Fiber Dome Terminal Closure FDT 08S

The new compact 3M™ Fiber Dome Terminal Closure FDT 08S is a dome terminal closure for aerial, above-grade, and buried below-grade applications. This terminal closure can meet the needs FTTP networks. It can accommodate 4, 6, or 8 direct fusion or mechanical spliced drop terminations.. The branch splice capacity is 72 single and 216 mass fusion. The closure FDT 08S is designed for butt, single or ribbon fiber applications.

PART #	DESCRIPTION	PRICE
FDT-08S-A-N4N-01A-A-D2-N	Fiber Optic Closure 1GND, 20MM-1, 12MM-4, 2538 Tray-1 Ground Kits-2	\$290.44

3M™ FIBER OPTIC SPLICE TRAYS AND OSP ACCESSORIES

PART #	DESCRIPTION	PRICE
2532	Splice tray for 2178XSB, stackable/entry-exit both ends, up to 24 single fusion splices	\$16.80
2524-FT	Fusion splice organizer tray, holds 24 single fusion splices (splice inserts included)	39.99
2522	Fiber splice organizer tray – small (holds 2 chips/24 fiber) (11.5"L x 4"W x .75"H)	22.90
2523	Fiber splice organizer tray – large (holds 4 chips/48 fiber) (15"L x 4"W x .75"H)	25.95
2521F	Single fusion splice inserts (2 pack) -Fit 2522,2523,2527 trays (12 splices per insert)	18.00
2181-LS	Cable addition kit for 2178LS/LL cases, allows for 3 additional trays/4 cable ports.	96.00
2183-UAB	Gasket for 2178LS series splice cases	49.75
2527	Fiber Optic Splice Tray (12 ct) for SLiC™ closures	28.00
2183UHB	Universal Hanger Bracket	46.85
4414	3M Cable Cleaning Kit	27.50
4460-DFO	3M Scotchlok Shield Bond Connector Assembly	3.50



F1-OSPDBC24



F1-OSPDBC48

FIS FIBER OPTIC SPLICE CLOSURE

This FIS Outside Plant Direct Burial Closure offers the perfect choice for low fiber count distribution applications involving butt and inline installations. The compact size and rugged design allow the closure to be applied in below grade, aerial and buried installations. Dimensions: 21" L x 8" W x 4" H Weight: 9lbs.

- 4 Entry Ports • Accepts cables from 10mm - 22mm diameter • Direct Burial or Aerial applications • Can be configured for butt or in-line applications • Integrated splice trays included • Permanent waterproof sealing requires no re-entry kit • IP rating:66 (Equal to NEMA 4 and 4X)

PART #	DESCRIPTION	PRICE
F1-OSPDBC24	FIS Fiber Optic Splice Closure - 24 Fiber	\$99.95
F1-OSPDBC48	FIS Fiber Optic Splice Closure - 48 Fiber	119.95
F1-OSPTRAY	Splice Tray 12 but expandable to 24 Fiber For F1-OSPDBC-XX Closures 12 count, 24 count (Double Stacked)	9.95



F1-FLEXSPLC



FIS FLEXIBLE CABLE SPLICE PROTECTOR

The FIS Flexible Cable Splice Protector is an ideal solution for protecting fiber optic splices in challenging field conditions. This rugged, easy-to-install splice protector accommodates up to 12 splices with mini or micro protection sleeves, protecting them from moisture, vibration, shock and other adverse environmental conditions.

- Use for singlemode or multimode fibers • Accommodates 25-60mm long splice sleeves
- 5" Minimum bend radius (Flexible center portion only) • Dimensions: 13.75" (L) x 1.35" (W)

PART #	DESCRIPTION	PRICE
F1-FLEXSPLC	FIS Flexible Cable Splice Protector	\$65.00



AFL LG-500 AERIAL FIBER OPTIC CLOSURE

This aerial weathertight fiber optic splice closure is for small to medium counts up to 96 fiber (or 288 ribbon fiber). Splice trays are available for single, mass or mechanical splicing. **Splice Trays Not Included**

- Four individual, self-sizing grommeted cable ports
- Tongue-in-groove cover seal system
- Holds (3) single fiber trays, holds (2) mass fiber trays
- Accommodates cables sizes (max. OD - min OD) 0.77" - 0.3"
- Weight 6.4 lbs, Dimensions 24" x 8.25" x 4"

PART #	DESCRIPTION	PRICE
FC000026	LG-500 Aerial Compact Splice Closure with standard aerial hangers (no splice trays included)	\$110.00
LL2400	Single fiber fusion splice tray - Stores 24 single fused fibers (max. 3 trays in LG500U)	14.50
LL2448	Universal splice tray (1) 24 fiber single fiber chip/(1) dual ribbon splices and VHB tape for mechanical splices	14.50



LG-500

AFL LG-250 SEALED FIBER OPTIC CLOSURE

This sealed dome closure is for medium count fiber splicing up to 96 fibers (288 ribbon) in a butt configuration. Can be utilized for aerial or underground applications where a sealed closure is required. Requires no tools for re-entry. **Splice Trays Not Included**

- Supports looSetube, central tube, dielectric and armored cable constructions
- 5 Cable ports and fully kitted with all parts to install five cables
- Holds (4) single fiber trays, (2) Ribbon fiber trays or (3) Mechanical splice trays
- Accommodates cables sizes (max. OD - min OD) 0.77" - 0.3"
- Weight: 11.5 lbs, Dimensions 19" x 8.75"

PART #	DESCRIPTION	PRICE
FC000002PS	LG-250 Dome Closure with 5 cable kits for sealing and retention. (No splice trays, hanger brackets)	\$200.00
LL2400	Single fiber fusion splice tray - Stores 24 single fused fibers (max. 4 trays in LG250)	14.50
LL2448	Universal splice tray (1) 24 fiber single fiber chip/(1) dual ribbon splices and VHB tape for mechanical splices	14.50
FC000704	Single cable replacement grommet kit 1 set/port	23.15
FC000655	3-port flat drop grommet for standard size drops	11.75



LG-250

DID YOU KNOW? - ADSS

ADSS stands for All Dielectric Self Supporting. All Dielectric means that the cable is constructed without metal components so it will not conduct electricity. Self Supporting means that the cable will be held in place by very specialized hardware which will spread the force required to secure the cable over a distance on the jacket. Since no metal components exist for support the entire cable is supported by the hardware and jacket. Common applications for ADSS cable include Cellular Backhaul Networks, Power Utility Grids and projects that have substantial grade change over long distances.

The design of ADSS cable and hardware is specific for each application. Very specific information about the installation is required when ordering cable and hardware. **Specifications regarding Cable Part Number, Loading, Span Length, Power Zone Voltage and Cable O.D. will be required in order to quote properly. Typically manufacturers will not provide quote without the proper information.**



PLP ADSS

PART #	DESCRIPTION	PRICE
8006944	6.5" x17" Dome Enclosure for Central tube with Buffer tubes 48 splices	\$180.00
8006877	6.5" x22" Dome Enclosure for Central tube with Buffer tubes 144 splices	289.00
80061055	6.5" x17" Dome Enclosure for Central tube with out Buffer tubes 48 splices	390.00
TRAYS AND ACCESSORIES		
80806033	Standard splice tray for 8006944 12 splice count	\$22.50
80810086	Standard splice tray for 8006877 and 80061055 36 splice count	26.80



AFL ADSS

PART #	DESCRIPTION	PRICE
FC000026	LG 500 Aerial Compact Splice Closure with standard aerial bracket (no Trays included)	\$110.00
FC000029	LG 600 Aerial Weathertight Fiber Optic Splice Closure	220.00
LL2400	Single Fusion Splice Tray - Stores 24 Single fused fibers Max 12 trays for LG600	12.00
LL244848S	Single Fusion splice tray accommodates 48 fibers	14.50

DID YOU KNOW? - OPGW

OPGW stands for Optical Ground Wire which is used in Power Utilities. Optical Ground Wire Cable is used as a means to provide protection against lightning strikes on high voltage power lines, along with sending information over fiber optics. OPGW cable consists of multiple strands of fiber optics and Icky Pic (used to repel water and buffer against temperature change) and are contained within a tube either stainless steel or plastic based. The tube containing the fibers is then wrapped in 1 or more layers of metal wires. The layers of metal will be a conductor to move any current from a lightning strike and as protection for the fiber as well. The fiber contained within the cable will be used to transfer data between locations within the grid. The ability to analyze data in real time will eventually increase the efficiency of our aging power grid infrastructure.



PLP OPGW

PART #	DESCRIPTION	PRICE
800012143	6.5" x17" Dome Enclosure for Central tube with Buffer tubes - 48 splices	Call For Pricing
800012145	6.5" x22" Dome Enclosure for Central tube with Buffer tubes - 144 splices	Call For Pricing
800012147	6.5" x17" Dome Enclosure for Central tube with out Buffer tubes - 48 splices	Call For Pricing
800012149	6.5" x22" Dome Enclosure for Central tube with out Buffer tubes - 144 splices	Call For Pricing
TRAYS AND ACCESSORIES		
80806033	Standard splice tray for 6.5 x17" Domes 12 splice count	\$22.50
80805514	Standard splice tray for 6.5"x22" Domes 36 splice count	41.10
8003754	OPGW Strain Relief Bracket Kit	Call For Pricing
800012162	Coyote Defender for 6.5" x 17" and 6.5" x 22" Domes	\$550.00
8003569	Coyote Defender for 6.5" x 17" and 6.5" x 22" Domes with Double Arm Storage	151.95



AFL OPGW

PART #	DESCRIPTION	PRICE
FC00002PS	LG-250 Dome Enclosure (No trays included)	\$200.00
FC000683	OPGW Cable Bracket Kit for use only when installing closure on OPGW cable	25.00
OG03	Opti-Guard Splice Enclosure 504 single fusion splices no trays included	606.00
OGST01-72	Opti-Guard splice tray 72 splices	33.25
OGBG01	Ballistic Shield for Opti-Guard splice enclosure	1,018
CB44	External Coil Bracket	295.00



To order the following components please have specific information regarding Application, Cable Construction/Part Number and Span/ Loading details. Without this specific information FIS is not able to accurately quote any ADSS products. Please call for pricing.

FIBERLIGN LITE TENSION DEAD-ENDS

The FIBERLIGN Lite Tension Dead-end is a dielectric dead-end designed to terminate short-span, low-tension ADSS fiber optic cables in low-voltage environments. The product effectively transfers the low axial load on the cable at the end of the dead-end legs to allow uniform radial compression near the dead-end loop. **This component must be ordered specifically based on cable Outside Diameter and span length. Part number will vary depending on cable O.D.**

FIBERLIGN DIELECTRIC LIMITED TENSION DEAD-END

Intended for relatively low tension application usually associated with short-span construction. They are not cable or line design specific but are designed to fit broad diameter ranges. Holding performance will vary by specific cable brand and operating conditions. Therefore, no specific holding strength rating is possible. **This component must be ordered specifically based on cable Outside Diameter and span length. Part number will vary depending on cable O.D.**

FIBERLIGN DIELECTRIC MEDIUM TENSION DEAD-END

Designed for medium tension applications. Holding performance will vary by specific cable brand and operating conditions; therefore no, specific holding rating is possible. **This component must be ordered specifically based on cable Outside Diameter and span length. Part number will vary depending on cable O.D.**

FIBERLIGN LITE SUPPORT (FLS)

The FIBERLIGN Dielectric Support (FLS) system is designed to gently, but firmly, support All-Dielectric Self-Supporting (ADSS) cable. It is intended for tangent support installations on lines that feature relatively low voltages, very short spans and low mechanical loads. For most applications, the maximum line angle recommended is 20 degrees. **This component must be ordered specifically based on cable Outside Diameter and span length. Part number will vary depending on cable O.D.**

FIBERLIGN DIELECTRIC SUPPORT (FDS)

The FIBERLIGN Dielectric Support (FDS) system is designed to gently, but firmly, support All-Dielectric Self-Supporting (ADSS) cable. It is intended for tangent support installations on lines that feature relatively low voltages, short spans and modest mechanical loads. **This component must be ordered specifically based on cable Outside Diameter and span length. Part number will vary depending on cable O.D.**

FIBERLIGN ALUMINUM SUPPORT (FAS)

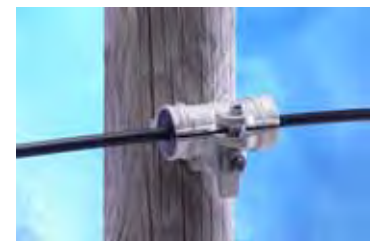
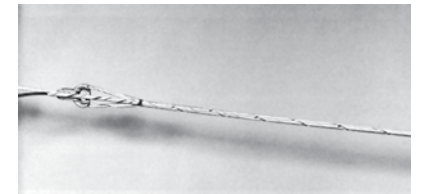
The FIBERLIGN Aluminum Support (FAS) is designed to gently, but firmly support All-Dielectric Self-Supporting (ADSS) cable. The FAS features the following: integrated bolt or band mount design, hinged keeper and base, single-bolt clamping, and stackability for multi-cable installations. For higher voltages (where track-resistant ADSS cables are required), longer spans and/or higher loads, use either the FIBERLIGN Aluminum Suspension with rods or the FIBERLIGN Dielectric Suspension. Maximum line angle typical is 20 degrees or less. **This component must be ordered specifically based on cable Outside Diameter and span length. Part number will vary depending on cable O.D.**

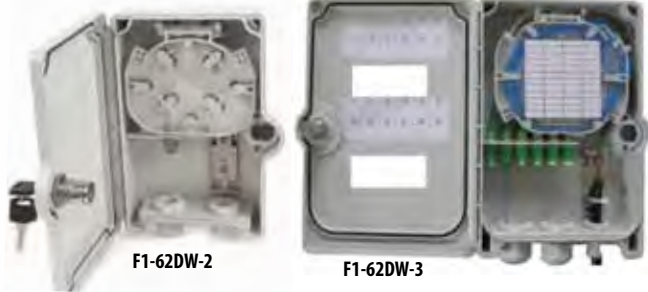
FIBERLIGN ALUMINUM SUSPENSION (FASN)

The FIBERLIGN Aluminum Suspension (FASN) is designed to gently, but firmly support All-Dielectric Self-Supporting (ADSS) cable. The FASN features the following: Short-to-Medium Span Option, Low-to-High Voltage Environment acceptance. **This component must be ordered specifically based on cable Outside Diameter and span length. Part number will vary depending on cable O.D.**

ADSS CORONA COILS

ADSS-CORONA Coils are intended to reduce electrical stress at the ends of the metal rods of FIBERLIGN® Dielectric Dead-ends and Suspensions applied on ADSS cables installed in high voltage electrical fields. They are made from a lightweight material and are designed to suppress electrical arcing at the ends of metal rods which can occur on some lines and may damage the plastic jacket of ADSS cables.





FIS FIBER OPTIC NID TERMINATION BOX

FIS Wall Mount Fiber Optic NID Terminal Box is designed to provide protection for fiber optic connectors and splices in indoor or outdoor environments (IP65 Rated). The enclosure has a built in, swing-out mini splice tray plus a bulkhead panel with SC cutout ports. 2 or 3 Cable access ports with built in weather-tight grommets allow for easy cable installation. **Adapters not included.**

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-62DW-2	FIS NID Termination Box (For 2 Simplex SC or 2 Duplex LC Connections) 2 Entry Ports	8.2" x 6" x 2"	\$39.95
F1-62DW-3	FIS NID Termination Box (For 6 Duplex SC or 6 LC Quad Connections) 3 Entry Ports	10.2" x 7" x 2"	49.95

LEVITON FIBER OPTIC NETWORK INTERFACE DEVICE (NID)

The rugged and secure NID provides protection from the elements and is offered in three variations. Constructed of a thermoplastic composite each NID safeguards fiber terminations, is wall mountable and designed with ease of maintenance for installers. Accommodates one 12-fiber splice tray. Specify connector/adaptor styles of SC/APC or SC/UPC for terminations.

See page 136 for adapter panels

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-530S	NID houses 12 splices and/or 2 SC/UPC Adapters includes tray and adapters	10.22" x 5.64" x 2.73"	\$110.00
F1-530A	NID houses 12 splices and/or 2 SC/APC Adapters includes tray and adapters	10.22" x 5.64" x 2.73"	110.00
F1-502-H	NID houses 12 splices and/or (1) FD series adapter panel (not incl.)	8.54" x 10" x 2.88"	65.00
T5PLS9CD	12 Count Splice Tray with (2) Six Position Heat Shrink Splice Holders		28.50



AFL OptiNID™ 500 OPTICAL DEMARCATION CLOSURE

The OptiNID (OPN) 500 is an optical demarcation closure designed for use in either indoor or outdoor environments. Smaller to suit FTTH demarcation applications and versatile to suit Cat5 or coax connections, the closure is capable of housing up to six bulkhead adapters in one 118 LGX® compatible adapter plate.

- Weather-resistant thermoplastic alloy
- 1/2" or 3/4" NPT conduit fitting, compression cable fittings or grommets entry ports

PART #	DESCRIPTION	PRICE
DM000614	1/2" NPT, Plug, Grommet, LGX 118 Black, 1 x SC/APC Adapter	\$40.00

DM000614

MULTILINK OPTICAL TERMINATION ENCLOSURE (OTE)

The Multilink OTE is designed to support the splicing and termination of optical drops and traditional splicing in aerial, pole or wall mount applications. The cover is designed with a latching mechanism to prevent inadvertent closing during installation activities. The OTE is fully kitted to reduce ordering of numerous parts or kits. Enclosure utilizes an easy to assemble cable sealing and retention system, no special tools needed.

Specifications: 18.5" x 11.5" x 6.0" • Cable entry ports: (8) total- 2 express/feeder, 2 branch or lateral, 4 Multiport

- Express/Feeder cable diameter- Max. 1.124", Min 0.375" • Branch/Lateral cable diameter- Max. 0.98", Min 0.30"
- Capacity: Standard splice trays: 3 (enclosure is equipped with 1 tray) • Standard cables: 4 (2 express/feeder, 2 branch/lateral)
- FTTH Drops: 4 ports (up to 24 individual drops) • Standard single splices: 36 (can be equipped to support up to 60 fibers)

PART #	DESCRIPTION	PRICE
F1-OTE	Starfighter OTE (Basic Enclosure)	\$195.00
F1-OTE-CAK	OTE Cable Addition Kit for Branch or Lateral Cable Additions (3 Grommets .3 - .79" cable O.D.)	9.95
F1-OTE-4COR	Multiport (4 Entries) Drop Entry Kit for Corning Drop Cable	5.75
F1-OTE-6RND	Multiport (6 Entries) Drop Entry Kit for .265" Round Drop Cable	6.95
4048-SSTP	24 Position Plastic Splice Tray	17.25



F1-OTE



PLP SNOW SHOES – FIBERLIGN IN-SPAN STORAGE



Preformed Line Products’ aerial cable attachment hardware solutions use innovative Cable Capture Tabs to efficiently manage cable slack making them simpler, easier and quicker to install with fewer cable ties. This saves time and money and makes adjustments for slack loop length easy. The unique CLAS system can be used with either ADSS or lashed applications and simply folds over the cable and straps in place without needing any mounting hardware. CLAS units include cable ties. Abrasion protection guides are standard with the CLAS system and optional for the other styles. Optional block style Uni-Group cable guides are also available for all styles. Please contact FIS for these options.



PART #	DESCRIPTION	PRICE
FIS-12A	12" ADSS Mount Snow Shoe (one pair)	\$42.50
FIS-12M	12" Strand Mount Snow Shoe (one pair)	39.00
FIS-16A	16" ADSS Mount Snow Shoe (one pair)	44.50
FIS-16M	16" Strand Mount Snow Shoe (one pair)	41.00
710012375A	20" CLAS Universal Snow Shoe System (one pair)	84.00

AFL FIBER STORAGE UNITS

AFL Fiber Storage Units (FSU) are used to conveniently and safely store an extra length of cable along the support strand for later use. Sold as pairs (kit contains 2 FSUs and 2 sets of hanger brackets). FSUs are constructed from dielectric polypropylene with UV inhibitor or aluminum with baked acrylic enamel finish. All basic hardware for attachment to the support strand is provided. Galvanized strand clamping devices accommodate 1/4" to 7/16" strand. Contact FIS sales representative for additional sizes not listed.

PART #	DESCRIPTION	PRICE
FA000004	FOSP-12-TMK Dielectric pair 12" with Horizontal Bracket	\$45.00
FA000002	FOSP-17-TMK Dielectric pair 17" with Horizontal Bracket	50.00
911110	FSU- Aluminum pair 18" with Horizontal Bracket	66.50
911109	FSU- Aluminum pair 16" with Horizontal Bracket	56.50
911108	FSU- Aluminum pair 12" with Horizontal Bracket	51.50



FIBER OPTIC SNOW SHOES

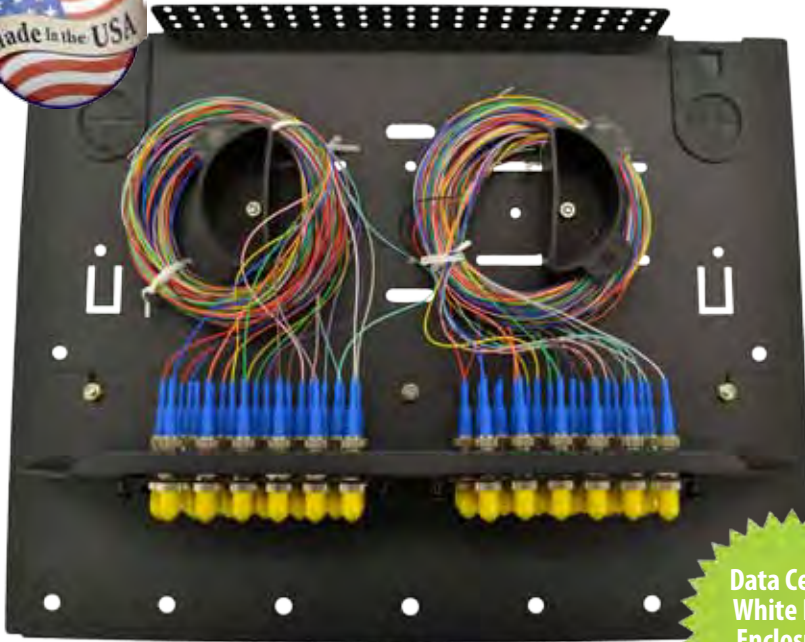
The plastic Snow Shoe is used to store additional lengths of fiber along the strand for later use. Sno Shoe is a durable and cost effective tool for storing fiber optic cable in the air. Adjustable Snow Shoes can be used aerially with standard tap brackets or the optional ADSS brackets. It can be mounted directly to the pole, or even in a manhole – anywhere you would want to store all of the slack at one location. Sno Shoes sold per pair.

PART #	DESCRIPTION	PRICE
2110-SSPTB	10" Plastic Sno Shoe with Hardware (one pair)	\$45.00
2116-SSPTB	16" Plastic Sno Shoe with Hardware (one pair)	40.00
2116-SAPT B	16" Plastic Adjustable Sno Shoe with Hardware (one pair)	129.95
2424-SAPT B	24" Plastic Adjustable Sno Shoe with Hardware (one pair)	230.00
2116-SSPSS	16" Plastic Sno Shoe with ADSS Hardware (one pair)	45.00





CUSTOM FIBER OPTIC ENCLOSURES



Key Features

- Rack Mount Modifications Available
- Development - Concept to Product Production
- Custom Colors Available
- Aluminum or Steel Enclosures
- Made in the USA



Data Center White Rack Enclosures Available



PRETERMINATED FIBER SOLUTIONS



Key Features

- Custom Length Multi-Fiber Terminated Cables
- Installed Pulling Eye for Installation
- High Density MTP/MPO Cassettes
- Singlemode and Multimode Fiber Types
- Singlemode Bend-Insensitive Fibers Available



Pre-Loaded Distribution Interconnects

BUILD YOUR CUSTOM PRE-LOADED RACK MOUNT PART NUMBER

FIS' expert manufacturing teams can load any rack mount box to your specifications for easy onsite installation. Just unpack, load in the rack, and splice, saving time loading boxes at the jobsite and making installations easy and efficient. Contact your FIS sales representative for pricing and other configurations.

CLOSURE TYPE	PORTS	COLOR	ADAPTER	FIBER TYPE	STYLE	FIBER LENGTH (IN METERS)	SPLICE TRAY	SPLICE
WM	036	X	LC	SM	T9	2	12	F
WM=Wall Mount RM=Rack Mount Slide RS=Patch & Splice Rack RMS=Rack Mount Swing RF=Rack Mount Flush CW=Corning Wall Mount CR=Corning Rack Mount LW=Leviton Wall Mount LR=Leviton Rack Mount AR=AFL Rackmount AW=AFL Wallmount	006= 6 Ports 012=12 Ports 024=24 Ports 036=36 Ports 048=48 Ports 072=72 Ports 096=96 Ports 144=144 Ports 288=288 Ports	X=Off White B=Black	SC=SC SCA=SC/APC DSC=Duplex SC DSCA=Duplex SC/APC LC=Duplex LC LCA=Duplex LC/APC QLC=Quad LC QLCA=Quad LC/APC FC=FC FCA=FC/APC ST=ST STA=ST/APC MJ=MTRJ MT=MTP/MPO	SM=9/125 OM1=62.5/125 OM2=50/125 OM3=50/125 (10G/300m) OM4=50/125 (10G/550m)	T9=900µm pigtail T3=3mm pigtail MD=Module MP=Multi-Fiber pigtail		12=12 Fiber Position 24=24 Fiber Position	F=Single Fusion M=Mech. Splice R=Ribbon Fusion

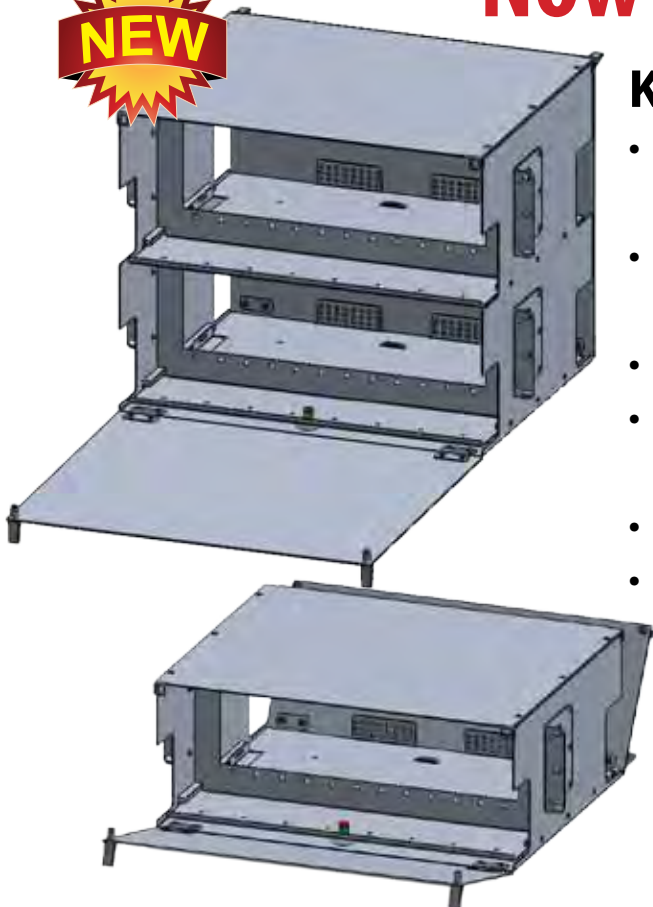
Part # Example:

F1-WM-036-X-LU-T9-02-12-F

Translates to:

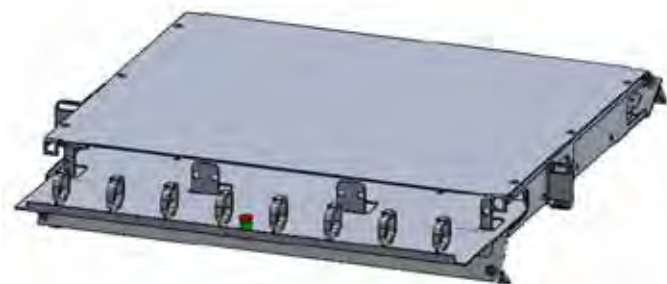
Wall Mount, 36 Ports, Off White, LC Singlemode Duplex, 900µm Pigtail, 2 Meters, 12 Fiber Splice Tray, Single Fusion

Building Information Modeling (BIM) Now Available



Key Features

- Provided Free to Architects, Designers and Contractors
- Quick "Snapping Together" of parts in Revit Environment
- Actual 3D Geometry
- Relevant Metadata Embedded into each BIM Model
- BICSI Compliant
- High Resolution Revit Model Rendering





The FIS Rack Mount Enclosures are designed for low or high density patching applications. This sturdy 14 gauge rack enclosure is available in 2, 3, 4, and 8RU versions. This unit provides a removable door with front and back access to the slide-out tray. The FIS Enclosures accommodate 19" or 23" racks. Purchase 6, 8, 12 or 24 pack adapter panels. Standard color is Black, simply attach suffix to Rack Mount Enclosures for Off-White (-BW), ex. F1RM2RU4X-BW.

Rack Mount Accessories
Page 143

FIS Rack Mount Fiber Optic Swing-Out Patch Panels



1RU SWING-OUT PATCH PANEL – ACCOMMODATES (2) ADAPTER PANELS

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 2 LGX style adapter plates, modules or cassettes
- Cable entries and exits on the front and rear of enclosure
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 1.75" H
- Powder coated 0.60" Aluminum

PART #	Color	PRICE
F1RMS01RU2X	Color Black	\$70.00
F1RMS01RU2X-BW	Color Off White	70.00



2RU SWING-OUT PATCH PANEL – ACCOMMODATES (4) ADAPTER PANELS

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 4 LGX style adapter plates, modules or cassettes
- Front cable retaining rings included for patch cable management
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 3.5" H
- Powder coated 0.60" Aluminum

PART #	Color	PRICE
F1RMS02RU4X	Color Black	\$95.00
F1RMS02RU4X-BW	Color Off White	95.00

FIS Rack Mount Fiber Optic Flush Mount Patch Panel Frame



1RU FLUSH MOUNT PATCH PANEL FRAME – ACCOMMODATES (3) ADAPTER PANELS

- 19" rack mountable
- Accepts 3 LGX style adapter plates, modules or cassettes
- Flush Mount
- Dimensions: 19"W x 1.75" H
- Powder coated 0.60" Aluminum

PART #	Color	PRICE
F1FM1RU3X	Color Black	\$20.00



4RU FLUSH MOUNT PATCH PANEL FRAME – ACCOMMODATES (12) ADAPTER PANELS

- 19" rack mountable
- Accepts 12 LGX style adapter plates, modules or cassettes
- Flush Mount
- Dimensions: 19"W x 7" H
- Powder coated 0.60" Aluminum

PART #	Color	PRICE
F1FM4RU12X	Color Black	\$39.95

FIS Rack Mount Fiber Optic Patch and Splice Panel Frame



4RU FIBER OPTIC PATCH AND SPLICE PANEL INTERCONNECT – ACCOMMODATES (4) ADAPTER PANELS

- 19" rack mountable
- Accepts 4 LGX style adapter plates, modules or cassettes
- (2) Sliding trays to access fiber optic patch cables or fusion splice trays
- Dimensions: 17"W x 7" H x 14"D
- Powder coated 0.60" Aluminum

PART #	Color	PRICE
F1RMSP4RU4X	Color Black	\$200.00



8RU FLUSH MOUNT PATCH PANEL FRAME – ACCOMMODATES (12) ADAPTER PANELS

- 19" rack mountable
- Accepts 12 LGX style adapter plates, modules or cassettes
- Recommended Splice Tray (PN 4048-SSTP)
- Dimensions: 17"W x 15" H x 14"D
- Powder coated 0.60" Aluminum

PART #	Color	PRICE
F1RS72HBLK	Color Black	\$265.00

FIS Rack Mount Fiber Optic Distribution Interconnects

1RU RACK MOUNT – ACCOMMODATES (3) ADAPTER PANELS (UP TO 72 FIBERS)

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 3 LGX style adapter plates, modules or cassettes
- Cable entries and exits on the front and rear of enclosure
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 1.75" H
- Powder coated 0.60" Aluminum

PART #	DESCRIPTION	PRICE
F1RM1RU3X	Color Black	\$99.00



F1-RM1RU3X
Holds 3 adapter panels

2RU RACK MOUNT – ACCOMMODATES (4) ADAPTER PANELS

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 4 LGX style adapter plates, modules or cassettes
- Front cable retaining rings included for patch cable management
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 3.5" H
- Powder coated 0.60" Aluminum

PART #	DESCRIPTION	PRICE
F1RM2RU4X	2RU Enclosure with Solid Front and Rear doors, Color Black	\$130.00
F1RM2RU4XL	2RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Black	130.00
F1RM2RU4X-BW	2RU Enclosure with Solid Front and Rear doors, Color Off White	130.00
F1RM2RU4XL-BW	2RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White	130.00



F1-RM2RU4X
24 port patch panel
Holds 4 adapter panels

2RU RACK MOUNT – ACCOMMODATES (6) ADAPTER PANELS

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 6 LGX style adapter plates, modules or cassettes
- Available in color Black(BLK) or Off-White (BW)
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 3.5" H
- Powder coated 0.60" Aluminum

PART #	DESCRIPTION	PRICE
F1RM2RU6X	2RU Enclosure with Solid Front and Rear doors, Color Black	\$145.00
F1RM2RU6XL	2RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Black	145.00
F1RM2RU6X-BW	2RU Enclosure with Solid Front and Rear doors, Color Off White	145.00
F1RM2RU6XL-BW	2RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White	145.00



F1-RM2RU6X
(6) Six Packs = 36 port
(6) Eight Packs = 48 port
Holds 6 adapter panels

4RU RACK MOUNT – ACCOMMODATES (12) ADAPTER PANELS

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 12 LGX style adapter plates, modules or cassettes
- Vertically mounted panels with cable retaining rings on the front entry
- Hinged front and rear removable doors
- Dimensions: 17"W x 13"D x 7.125" H
- Powder coated 0.60" Aluminum

PART #	DESCRIPTION	PRICE
F1RM4RU12X	4RU Enclosure with Solid Front and Rear doors, Color Black	\$185.00
F1RM4RU12XL	4RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Black	185.00
F1RM4RU12X-BW	4RU Enclosure with Solid Front and Rear doors, Color Off White	185.00
F1RM4RU12XL-BW	4RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White	185.00



F1-RM4RU12X
(12) Six Packs = 72 port
(12) Eight Packs = 96 port
Holds 12 adapter panels

8RU RACK MOUNT – ACCOMMODATES (24) ADAPTER PANELS

- 19" or 23" rack mountable (23" mounting brackets sold separately)
- Accepts 24 LGX style adapter plates, modules or cassettes
- Splice trays available for installing behind patch panel frame
- Available solid or clear Lexan front door
- Dimensions: 17"W x 13"D x 15" H
- Powder coated 0.60" Aluminum

PART #	DESCRIPTION	PRICE
F1RM8RU24X	8RU Enclosure with Solid Front and Rear doors, Color Black	\$299.00
F1RM8RU24XL	8RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Black	299.00
F1RM8RU24X-BW	8RU Enclosure with Solid Front and Rear doors, Color Off White	299.00
F1RM8RU24XL-BW	8RU Enclosure with Smoked Lexan Front and Solid Rear door, Color Off White	299.00



F1-RM8RU24X
Holds 24 adapter panels



F1-CCHBK

UNIVERSAL MOUNTING BRACKET FOR CORNING WCH AND CCH BOXES

Now available from FIS is a Universal Mounting Bracket that allows installers to use LGX style (dimensions 1 1/4" x 5 1/8") adapter plates from other manufacturers in Corning WCH and CCH series boxes. For use when original manufacturers' plates are not available to complete adds and changes. These mounting plates accept and work well with all adapter plates on this page or with Snap Packs™.

PART #	DESCRIPTION	PRICE
F1-CCHBK	Universal Mounting Bracket for Corning WCH and CCH Boxes (adapter plate not included)	\$3.99



LGX PLATES FOR FIS WALL AND RACK MOUNT ENCLOSURES

*All FIS Adapter Plates are LGX compatible. Each panel is 5.1" (130mm) long by 1.13" (28.7mm) wide, with a on center post width of 4.64 (118mm)



F1-SC6APCUL45

F1-LC6DAQUL45

F1-SC8BKSUL

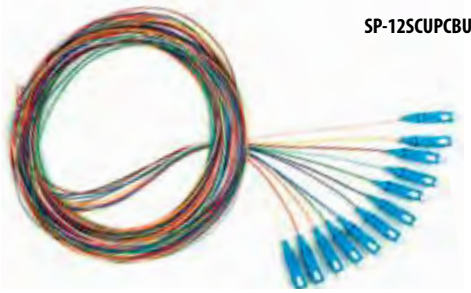
F1-SC6DBKAPCUL

F1-LC6DBKMUL

F1-SC8BKAPCUL

F1-ST8BKSUL

OFF WHITE PART #	BLACK PART #	DESCRIPTION	PRICE
F1SC6APCUL45 NEW	F1SC6APCBKUL45	SC 6 Pack (APC Singlemode – Loaded) Green Adapters	\$22.00
F1LC6DAQUL45 NEW	F1LC6DAQBKUL45	LC Duplex 6 Pack (10 Gig) 12 Fibers Aqua Adapters	27.00
F1-BLANKU	F1-BLANKUBK	Blank Plate with No Holes (Unloaded)	2.85
F1-ST6U	F1-ST6UBK	ST 6 Pack (Unloaded)	2.85
F1-ST6LMUL	F1-ST6BKMUL	ST 6 Pack (Multimode - Loaded)	14.00
F1-ST6LSUL	F1-ST6BKSUL	ST 6 Pack (Singlemode - Loaded)	17.00
F1-ST8U	F1-ST8UBK	ST 8 Pack (Unloaded)	2.85
F1-ST8LMUL	F1-ST8BKMUL	ST 8 Pack (Multimode - Loaded)	18.00
F1-ST8LSUL	F1-ST8BKSUL	ST 8 Pack (Singlemode - Loaded)	21.00
F1-FC6U	F1-FC6UBK	FC 6 Pack (Unloaded)	2.85
F1-FC6MUL	F1-FC6BKMUL	FC 6 Pack (Multimode/Singlemode - Loaded)	21.00
F1-FC6SUL	F1-FC6BKSUL	FC 6 Pack (Singlemode - Loaded)	23.00
F1-FC6APCUL	F1-FC6BKAPCUL	FC 6 Pack (APC Singlemode - Loaded)	29.00
F1-SC6U	F1-SC6IUBK	SC 6 Pack (Unloaded)	2.85
F1-SC6MUL	F1-SC6IBKMUL	SC 6 Pack (Multimode - Loaded) Beige Adapters	14.00
F1-SC6SUL	F1-SC6IBKSUL	SC 6 Pack (Singlemode - Loaded) Blue Adapters	17.00
F1-SC6APCUL	F1-SC6IBKAPCUL	SC 6 Pack (APC Singlemode - Loaded) Green Adapters	17.00
F1-SC8U	F1-SC8UBK	SC 8 Pack (Unloaded)	2.85
F1-SC8MUL	F1-SC8BKMUL	SC 8 Pack (Multimode - Loaded) Beige Adapters	16.00
F1-SC8SUL	F1-SC8BKSUL	SC 8 Pack (Singlemode - Loaded) Blue Adapters	19.00
F1-SC8APCUL	F1-SC8BKAPCUL	SC 8 Pack (APC Singlemode - Loaded) Green Adapters	19.00
F1-SC6DMUL	F1-SC6DBKMUL	SC Duplex 6 Pack (Multimode - Loaded) Beige Adapters	20.00
F1-SC6DAQUL	F1-SC6DAQBKUL	SC Duplex 6 Pack (Multimode - 10 Gig Loaded) Aqua Adapters	20.00
F1-SC6DSUL	F1-SC6DBKSUL	SC Duplex 6 Pack (Singlemode - Loaded) Blue Adapters	29.00
F1-MTRJ6MUL	F1-MTRJ6BKMUL	MT-RJ 6 Pack (Multimode)	17.00
F1-LC6DMUL	F1-LC6DBKMUL	LC Duplex 6 Pack (Multimode) 12 Fibers Beige Adapters	15.00
F1-LC6DSUL	F1-LC6DBKSUL	LC Duplex 6 Pack (Singlemode) 12 Fibers Blue Adapters	25.00
F1-LC6DAPCUL	F1-LC6DBKAPCUL	LC Duplex 6 Pack (APC Singlemode) 12 Fibers Green Adapters	39.00
F1-LC6DAQUL	F1-LC6DBKAQUL	LC Duplex 6 Pack (10 Gig) 12 Fibers Aqua Adapters	22.00
F1-LC24MUL	F1-LC24BLKMUL	LC Quad 6 Pack (Multimode) 24 Fibers Beige Adapters	35.00
F1-LC24AQUL	F1-LC24AQBKUL	LC Quad 6 Pack (10 Gig) 24 Fibers Aqua Adapters	35.00
F1-LC24SUL	F1-LC24BLKSUL	LC Quad 6 Pack (Singlemode) 24 Fibers Blue Adapters	63.00
F1-MTP6MUL	F1-MTP6BKMUL	MTP 6 Pack Plate Loaded with Adapters	55.00
F1-MTP8MUL	F1-MTP8BKMUL	MTP 8 Pack Plate Loaded with Adapters	65.00



SP-12SCUPCBU

Multimode Pigtails Available!



DSP12LCUPC

PIGTAILS FOR SPLICING-COLOR CODED 6 AND 12 PACKS

6 Pack includes fiber colors of Blue/Orange/Green/Brown/Slate/White and are length of 3 meters. 12 Pack includes all twelve standard industry colors. Single-mode UPC - typical loss .3dB, back reflection -55dB / APC -typical loss .2dB, min. back reflection -65dB. Multimode Typical Insertion Loss - max. .4dB

PART #	DESCRIPTION	PRICE
SP-6SCUPC-BU	SC/UPC Singlemode 900µm (6 pack) with blue boots	\$35.00
SP-12SCUPC-BU	SC/UPC Singlemode 900µm(12 pack) with blue boots	70.00
SP-6SCAPC-GR	SC/APC Singlemode 900µm (6 pack) with green boots	45.00
SP-12SCAPC-GR	SC/APC Singlemode 900µm (12 pack) with green boots	84.00
SP-6SCMM-BG	SC/PC 62.5µm 900µm (6 pack) with beige boots	30.00
SP-12SCMM-BG	SC/PC 62.5µm 900µm (12 pack) with beige boots	60.00
SP-6SCMM50-BLK	SC/PC 50µm 900µm (6 pack) with black boots	30.00
SP-12SCMM50-BLK	SC/PC 50µm 900µm (12 pack) with black boots	60.00
SP-6SCMM50G-AQ	SC/PC 50µm OM3 900µm (6 pack) with aqua boots	35.00
SP-12SCMM50G-AQ	SC/PC 50µm OM3 900µm (12 pack) with beige boots	65.00
SP-6LCUPC-BU	LC/UPC Singlemode 900µm (6 pack) with blue boots	45.00
SP-12LCUPC-BU	LC/UPC Singlemode 900µm (12 pack) with blue boots	90.00
SP-6LCMM-BG	LC/PC 62.5µm, 900µm (6 pack) with beige boots	40.00
SP-6LCMM50-BLK	LC/PC 50µm, 900µm (6 pack) with black boots	40.00
SP-6LCMM50G-AQ	LC/PC 50µm OM3 10G, 900µm (6 pack) with aqua boots	45.00
SP-12LCMM-BG	LC/PC 62.5µm, 900µm (12 pack) with beige boots	80.00
SP-12LCMM50-BLK	LC/PC 50µm, 900µm (12 pack) with black boots	80.00
SP-12LCMM50G-AQ	LC/PC 50µm OM3 10G, 900µm (12 pack) with aqua boots	85.00
SP-6STMM-BG	ST/PC 62.5µm 900µm (6 pack) with beige boots	35.00
SP-6STMM50-BLK	ST/PC 50µm, 900µm (6 pack) with black boots	35.00
SP-12STMM-BG	ST/PC 62.5µm, 900µm (12 pack) with beige boots	60.00
SP-12STMM50-BLK	ST/PC 50µm, 900µm (12 pack) with black boots	60.00
SP-6STUPC-BU	ST/UPC Singlemode 900µm (6 pack) with blue boots	35.00
SP-12STUPC-BU	ST/UPC Singlemode 900µm (12 pack) with blue boots	70.00

RIBBON FAN-OUT PACKS

PART #	DESCRIPTION	PRICE
RF-3-BU-P-S-3-FIS-12	SM, SC/UPC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	\$100.00
RF-3-BA-P-S-3-FIS-12	SM, SC/APC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	120.00
RF-3-AU-P-S-3-FIS-12	SM, FC/UPC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	100.00
RF-3-AA-P-S-3-FIS-12	SM, FC/APC - Pigtail, 3 Meters 36" Fan-out, 2 Meter Tail, 12 Fiber	120.00

FIS SNAP PACKS™

These pre-terminated adapter panels provide convenience to technicians splicing into fiber distribution frames. Available in 6 or 12 fiber bundles with TIA-598-A standard color code, these bundled fibers provide cable management from patchpanel to splice bays. Custom lengths and different connector style adapter panels are available, contact your FIS sales associate.

PART #	DESCRIPTION	PRICE
F1-SC6LS-SPN	(6) Adapters, SC/UPC, 6 Fiber Pigtail, Singlemode, 3 Meters	\$67.50
F1-DSC6LS-SPN	(6) Duplex Adapters, SC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters	175.50
F1-SC6APC-SPN	(6) Adapters, SC/APC, 6 Fiber Pigtail, Singlemode 3 Meters	88.00
F1-LC6DL-SPN	(6) Duplex Adapters, LC/UPC, 12 Fiber Pigtail, Singlemode, 3 Meters	176.00
F1-DSC6LM-SPN	(6) Duplex Adapters, SC, 12 Fiber Pigtail, 62.5/125µm OM1, 3 Meters	117.00
F1-ST6LM-SPN	(6) Adapters, ST, 6 Fiber Pigtail, 62.5/125µm OM1, 3 Meters	62.00
F1-ST6LS-SPN	(6) Adapters, ST, 6 Fiber Pigtail, Singlemode, 3 Meters	68.00
F1-SC6LM-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 62.5/125µm, 3 Meters	62.00
F1-SC6LM50-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125µm, 3 Meters	62.00
F1-SC6LM50G-SPN	(6) Adapters, SC/PC 6 Fiber Pigtails, 50/125µm OM3 10G, 3 Meters	68.00
F1-DSC6LM50-SPN	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125µm, 3 Meters	117.00
F1-DSC6LM50G-SPN	(6) Duplex Adapters, SC/PC 12 Fiber Pigtails, 50/125µm OM3 10G, 3 Meters	135.00
F1-LC6DLM-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, 62.5/125µm, 3 Meters	117.00
F1-LC6DLM50-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, 50/125µm, 3 Meters	117.00
F1-LC6DLM50G-SPN	(6) Duplex Adapters, LC/PC 12 Fiber Pigtails, OM3 10G, 3 Meters	135.00

DISTRIBUTION STYLE PIGTAILS - 3 METERS

Distribution Style Pigtails are similar to 900µm Color Coded Pigtails; the only difference being that the individual 900µm tight buffered fibers are enclosed in an outer PVC jacket. Yellow for SM, Aqua for 50µm OM3, and Orange for 62.5 OM1 and 50µm OM2. Typical losses are the same as for individual 900µm pigtails.

PART #	DESCRIPTION	PRICE
DSP6SCUPCBU	6 Fiber SC/UPC Distribution Style Pigtail, SM, Blue Boots	\$40.00
DSP12SCUPCBU	12 Fiber SC/UPC Distribution Style Pigtail, SM, Blue Boots	80.00
DSP6SCAPCGR	6 Fiber SC/APC Distribution Style Pigtail, SM, Green Boots	47.00
DSP12SCAPCGR	12 Fiber SC/APC Distribution Style Pigtail, SM, Green Boots	94.00
DSP6LCUPCBU	6 Fiber LC/UPC Distribution Style Pigtail, SM, Blue Boots	50.00
DSP12LCUPCBU	12 Fiber LC/UPC Distribution Style Pigtail, SM, Blue Boots	100.00
DSP6SCMM50GAQ	6 Fiber SC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots	37.00
DSP12SCMM50GAQ	12 Fiber SC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots	74.00
DSP6LCMM50GAQ	6 Fiber LC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots	50.00
DSP12LCMM50GAQ	12 Fiber LC/UPC Distribution Style Pigtail, MM, 50µm, OM3 Aqua Boots	100.00



RF-3-BU-P-S-3-FIS-12



F1-SC6LS-SPN



F1-6808

FIS SPLICE TRAY

The FIS Splice Tray is injection molded using UL94 fire retardant material. The tray is designed to fit in most splice closures and can accommodate 12 fusion, mechanical, bare fiber splices or 6 rigid fusion splices depending on the splice chips chosen. See splice holding chips below. The standard version accepts 12 fusion splice protection sleeves. Features include: fiber routing molded into the tray, fiber tie down holes, snap or slide together construction. Dimensions 7" L x 4.25" W x .48" H

PART #	DESCRIPTION	PRICE
F1-6808	Single fusion Splice Tray	\$9.95
F1-6808M	Mechanical Splice Tray	9.95
F1-6808BA	Bare Fiber Splice Tray	9.95



F1-6707BLKF

FIS ALUMINUM SPLICE TRAYS

The FIS Aluminum Splice Tray is available with four splice holding chip selections. In addition to the standard 12 position fusion and mechanical splice chip, purchase a 12 position bare fiber chip. The FIS Splice Tray is provided with a user installable press-on 'L' bracket when user desires looping to exit or enter side. Features of tray include: plastic coated aluminum, foam padded cover, radius sides and punched end holes. Complete instructions include how tray is installed into F1-2010 interconnect. Dimensions 7.5" L x 4" W x .63" H

PART #	DESCRIPTION	PRICE
F1-6707BLKF	Fusion Splice 12 Position Soft Accepts Protection Sleeves	\$13.95
F1-6707BLKM	Mechanical Splice 12 Position Soft	13.95
F1-6707BLKR	Bare Fiber 12 Position Rigid	13.95
F1-6707BLKH	Fusion Splice 6 Position Rigid	13.95



F1-8735

F1-8729

FUSION SPLICE TRAYS

The Fusion Splice Tray is designed to hold up to 12 bare fibers or 12 fusion splices (12" or 7" lengths) that utilize the FIS Protection Sleeve (F1-1002). Splice trays have clear plastic covers

PART #	DESCRIPTION	PRICE
F1-8735C	Trays for Protection Sleeves (7" L x 4" W x .31" H)	\$11.95
F1-8729G	Fusion Splice Tray for Protection Sleeves (4" x 11")	15.95



F1-8731

STARFIGHTER SPLICE TRAYS

Starfighter Splice Trays are designed for use with the Multilink Starfighter series of closures. Each splice tray can accommodate single fusion, bare fusion, ribbon fusion protection sleeves and mechanical splices. Starfighter splice trays are durable to protect and hold your splice with confidence.

PART #	DESCRIPTION	PRICE
1120-SSTA	12 Position Aluminum (7" L x 4.75" W x .46" H)	\$19.95
1120-SSTP	12 Position Plastic (7" L x 4.75" W x .46" H)	12.95
2000-SSTA	24 Position Aluminum (12.25" L x 4" W x .46" H)	19.95
3000-SSTA	24 Position Aluminum (for 3000-F only) (8.5" L x 5.8" W x .43" H)	25.00
3030-SSTP	24 Position Plastic (for 3000-F and 4000-D) (8.25" L x 6" W x .5" H)	17.25
4048-SSTP	Hinged Splice Tray 24 Fiber (for 4048D, F1-RS24, F1-RS72) (8.25" L x 6" W x .5" H)	17.25



FIS SPLICE BRIDGES

The FIS Splice Support Bridge is available in two basic designs. The 24-way splice bridge will accommodate up to 24 fusion splices or 12 mechanical. It is supplied with a protective lid with a designation label. The 4-way version will accept 4 fusion or mechanical splices.

PART #	DESCRIPTION	PRICE
F1-8730	Splice Bridge (4-way) Fits in The 4 Port Wall Mount	\$2.95
F1-8731	Splice Bridge (up to 12 Mechanical or 24 Fusion Splices)	4.25

FIS FUSION AND MECHANICAL SPLICE HOLDING CHIPS

Several styles of Splice Chips are available from FIS. Use double sided tape or epoxy to adhere soft chips to mounting surface. FIS will install any stocked Splice Chip in your FIS Splice Tray upon request.

PART #	DESCRIPTION	PRICE
F1-6707FCM	Protection Sleeve Chip 12 Position (Soft) (1) (non-adhesive backing)	65¢
F1-6707MCM	Mechanical Chip 12 Position (Soft) (2) (non-adhesive backing)	65¢
FSH-MR-06	Foam Fusion Splice Chips for Mini/Micro Sleeves (5)	\$1.55
USC-FN12	Bare Fiber Fusion Splice Chip 12 Position (Rigid) (4)	2.35
USC-HS	Heat Shrink Splice Chip 6 Position (Rigid) (adhesive backing) (3)	1.00
FSH-LDR	Protection sleeve chip 12 position (plastic) (adhesive backing) (6)	2.55
275897-000	Raychem/Tyco 12ct Splice Chip for FOSC Trays	1.50

CABLE GRIPS

PART #	DESCRIPTION	PRICE
80022	Cord Grip 1/2" Gray	\$3.00
80020	Cord Grip 3/8" Gray	2.75

MINI WALL MOUNT

This 16 gauge steel wall mount features a single outer door with capacity for up to (2) standard FIS adapter panels. Dimensions: 10"H x 6"W x 2.5"D - Weight: 5 lbs. Color: Black

PART #	DESCRIPTION	PRICE
F1-105818BLK	2 Panel (Unloaded)	\$40.00



F1-105818BLK

FIS ECONOMY WALL MOUNT ENCLOSURES

FIS Economy Wall Mount Enclosures allow for patching of fiber optic cables. Made of lightweight steel and finished with scratch resistant powder coated paint. The enclosures feature a latch-secured front door. The enclosures include slack management and Velcro cable management loops. Available in off white, remove suffix -BLK example F1-EW12.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-EW12BLK	2 Panel (Unloaded)	10.18" x 12" x 3.5"	\$60.00
F1-EW24BLK	4 Panel (Unloaded)	12" x 12" x 3.5"	65.00



F1-EW12BLK

FIS DELUXE WALL MOUNT ENCLOSURES

The FIS Deluxe Wall Mount Enclosure includes keyed entry and double door access for trunk and distribution cables. The deluxe enclosure is available in a 24 and 54 port version. This rugged 16 gauge steel enclosure is perfect for patching cables in controlled environments and includes cable entry grommets. Available in off white, remove suffix -BLK example F1-DW24.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-DW24BLK	4 Panel (Unloaded)	10.8" x 12" x 4"	\$95.00
F1-DW54BLK	9 Panel (Unloaded)	17.25" x 17" x 4.75"	155.00

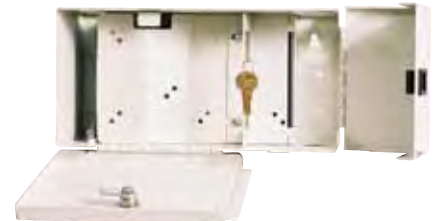


F1-DW54

FIS PATCH AND SPLICE WALL MOUNT ENCLOSURES

The FIS Patch and Splice Wall Mounts are lightweight and easy to install. This unit is a compact housing allowing both splicing and connecting fiber optic cables. The FF-WM012 can accommodate 2 panels. The FF-WM024 can accommodate 4 panels. Both units are ideal for use at building entrances, equipment rooms or other locations where space is scarce. Also available in black, add suffix -BLK example FF-WM012-BLK.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
FF-WM012	2 Panel (Unloaded)	6" x 12" x 4.5"	\$125.00
FF-WM024	4 Panel (Unloaded)	16" x 14" x 4.5"	140.00
FF-WM048	8 Panel (Unloaded)	16" x 20" x 6.5"	165.00

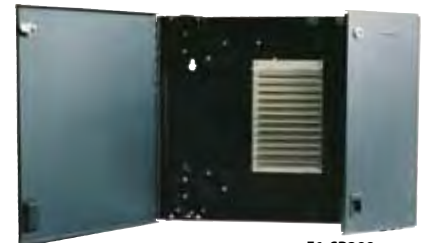


FF-WM012

FIS WALL MOUNT SPLICE ENCLOSURE

Manufactured with 16 gauge steel, this indoor enclosure provides housing for up to 288 single fusion splices. Double doors lock on both sides and cable management hardware is included. Use Starfighter 2000-SSTA splice trays to utilize maximum capacity. Splice trays not included. Holds 12 splice trays.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
F1-SP288	FIS Wall Mount Splice Enclosure	17.5" x 21.4" x 4.75"	\$148.00

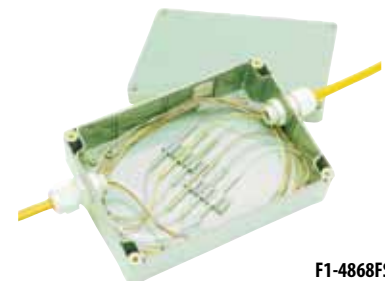


F1-SP288

FIS SPLICE ENCLOSURE

The splice enclosure unit utilizes a 12 position molded splice chip to secure splices, for controlled environments, to be mounted on a wall. Cable entry grommets secure incoming/outgoing cable up to 12mm. Inside clamps provide the ability to coil excess cable. Dimensions: 2 1/8"(W) x 6 3/4"(L) x 4 3/4"(H)

PART #	DESCRIPTION	PRICE
F1-4868-FSS	Fusion Splice Enclosure (up to 7mm cable size)	\$39.00
F1-4868-MSS	Mechanical Splice Enclosure (up to 7mm cable size)	39.00
F1-4868-FLL	Fusion Splice Enclosure (7mm to 12mm cable size)	39.00
F1-4868-MLL	Mechanical Splice Enclosure (7mm to 12mm cable size)	39.00



F1-4868FSS



MOLEX COMPACT WALL MOUNT

This low profile enclosure is constructed of white rugged plastic and provides proper internal fiber management. Includes mounting screws, warning label and cable ties. (7.25" H x 5" W x 1.5" D)

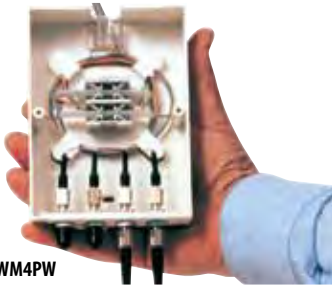
PART #	DESCRIPTION	PRICE
WFR-00011-02	6-port ST style, loaded with SM adapters	\$65.00
WFR-00010-02	6-port ST style, loaded with MM adapters	35.95
WFR-00030-02	6-port SC style, unloaded	25.00
WFR-00028-02	8-port duplex SC style, loaded with MM adapters	48.00
WFR-00029-02	8-port duplex SC style, loaded with SM adapters	78.00



FIS COMPACT WALL BOX

Utilize this new wall mount box for fusion splice sleeve storage or direct connector termination. Simply place two small cable ties through the back of the box, slide the cable into box and secure. Next use the small cable management spool to store some slack prior to splicing or termination. There are knock-outs on each side of the box for simplex SC or LC duplex adapters. Built in splice sleeve holders accommodates up to two 40mm heat shrink splice sleeves. Dimensions 4"H x 3.25"W x 1"D

PART #	DESCRIPTION	PRICE
F1-CWB02	FIS Compact Wall Box with fiber management ring and splice tray(white)	\$8.95



F1-WM4PW

FIS 4 PORT WALL MOUNT

The 4-Port Wall Mount Box is a compact design ideal for data applications. It can either be wall mounted or placed in a floor box and can house up to (4) fibers, inline adapters and pigtails. Cables can be easily terminated or spliced together. The wall mount has facilities for incoming cable/fiber to be presented via mini-trunking grommets.

Dimensions: 5"(W) x 6 1/2"(L) x 1 1/2"(H). **Sold separately, Adapters pg 84 and splice chip pg138.**

PART #	DESCRIPTION	PRICE
F1-WM4PW	4-Port for ST, FC, SMA or D4 - Adapters not included	\$9.25
F1-WM4S	4-Port for (2) SC Duplex Adapters - Adapters not included	14.25



Standard MPC

PLP COYOTE WALL MOUNT MULTI-PURPOSE CLOSURE (MPC)

A versatile high performance demarcation closure for indoor or outdoor applications. With its unique interior grid pattern the MPC allows for custom configuration and mounting of a wide array of components. NEMA 4 rated and supplied with knockouts for up to 8 entry points. Contact an FIS sales representative for custom configurations.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
COYMP-C-000	COYOTE Standard MPC (Empty) 16"L x 14"W x 4" D	16" x 14" x 4"	\$91.60
COYMP-D-000	COYOTE Deep MPC (Empty) 16"L x 14"W x 8" D	16" x 14" x 8"	145.00
80808618	Stepped Grommet Kit, Bag of 4 (.07" - 1.0")		12.15
80808960	Empty Bulkhead Kit for standard or Deep MPC (Accepts 2 adapter modules)		14.95
8003814	Splice Platform for Single Fusion splices		11.75



EDC-02PNH

EDC-12PNH

CCS ENVIRONMENTAL DISTRIBUTION CENTER (EDC)

Corning Cable Systems EDC product family continues to set the standard for the future of interconnect hardware. These units are designed for the protection of fiber optic connections and splices in indoor or outdoor environments; the EDC is ideal for industrial, marine, security, or traffic control applications. The EDC series accepts CCH panels and splice trays. No entry holes provided on EDC series cabinets.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
EDC-02PNH	Accepts 2 CCH Adapter Panels	12.5" x 10.5" x 6.25"	\$425.00
EDC-06PNH	Accepts 6 CCH Adapter Panels	16.5" x 14.5" x 8.3"	550.00
EDC-12PNH	Accepts 12 CCH Adapter Panels	18.6" x 16.6" x 10.3"	695.00
EDC-2N4-KIT	Two NEMA 4 Rated Conduit Fittings for Two-Inch Conduit		95.00
EDC-2EC-KIT	Two Non-Rated Conduit Fittings for Two-Inch Conduit		29.95
EDC-2WT-KIT	Two Watertight Compression Fittings (not intended to mate with conduit)		46.50
HDWR-GRND-KIT	Hardware Grounding Kit: Includes Two Ground Wires, Sheath Ground Clip and Bus		37.95

CORNING CABLE SYSTEMS WALL MOUNT ENCLOSURES

These metal cabinet units are suitable for loose tube and tight-buffered fiber optic cables. Enclose your fiber optic connections and, for extra protection, locking kits are available for purchase. Patch and splice your fiber cables with the purchase of a splice tray holder and trays for your application.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
WCH-02P	12 fiber WCH will Accept up to (2) CCH Adapter Panels	9.25" x 13.25" x 3.25"	\$100.00
WCH-04P	24 fiber WCH will Accept up to (4) CCH Adapter Panels	13.5" x 16" x 4"	160.00
WCH-06P	48 fiber WCH will Accept up to (6) CCH Adapter Panels	13.5" x 16" x 4"	195.00
WCH-012P	144 fiber WCH will Accept up to (12) CCH Adapter Panels	13.5" x 22.5" x 5"	345.00
WCH-SPLC-4-8	Splice Tray Holder for WCH04, -06 and -08 units. Install 8 (Type 2R) or 4 (Type 4R) Trays		41.25
WCH-SPLC-12	Splice Tray Holder for WCH12, Install 12 (Type 2R) or 6 (Type 4R) trays		55.95
HDWR-LOCK-KIT	Field Installable Lock for Center Door only, Includes One Lock and Two Keys		25.95
M67-110	Splice Tray Holds 12 Heatshrink for WCH Series (Type 4R)		40.95
WCH-SPLC-2P	Splice Tray Holder for WCH-02P		15.95

CORNING



WCH-SERIES

CCS WALL MOUNT SPLICE HOUSINGS (WSH SERIES)

The Corning Cable Systems WSH is designed to store fibers being spliced within the unit. The front door doubles as a work surface that can support the weight of a fusion splicer. Multiple cable entry/exit ports are provided on each side in addition to top and bottom. Grounding kits are available for purchase separately.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
WSH-11SPTF	Accepts up to Eleven (Type 4S, 4R or 4A) Trays	13.5" x 22.5" x 5.2"	\$325.00
WSH-16SPT	Accepts up to Sixteen (Type 2S, 2R or 2M) Trays	13.5" x 22.5" x 5.2"	295.00



WSH-SERIES

CCS PRETIUM™ CONNECTOR HOUSING

These Corning housings are 4-inches deeper than the standard CCH housings for installing the splice tray holding option. The PCH-04 series contains an integral hinged jumper manager on the front of the housing. The PCH-01U housing has a removable top that slides forward with simple release providing access to interior components. **Adapter Panels not included.*

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
PCH-01U	12 Fiber, 1U - accepts (2) CCH panels	1.75" x 17" x 16"	\$300.00
PCH-02U	24 Fiber 2U - accepts (4) CCH panels		400.00
PCH-04U	72 Fiber, 4U - accepts (12) CCH panels	7" x 17" x 16"	480.00
PC1-SPLC-04R	Splice Tray Bracket for PCH-01U, accepts (4) type 2 trays or (2) type 4 trays.		38.00
PC4-SPLC-12SR	Splice Tray Bracket for PCH-04U, accepts (12) type 2S or (7) type 4S trays.		145.25

CORNING



PCH-04U

CCS ADAPTER PANELS FOR CCH, WCH AND EDC SERIES

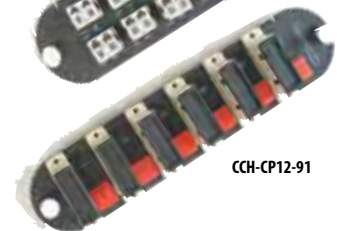
The Closet Connector Housing (CCH) panels are available in a variety of adapter styles for use with the LANscape® hardware products. Manufactured from steel, they are designed to be robust. Choose from the selection below or ask an FIS representative for other configurations.

PART #	DESCRIPTION	PRICE
CCH-CP06-15T	Six ST MM, Ceramic Insert	\$41.95
CCH-CP06-19T	Six ST SM, Ceramic Insert	47.95
CCH-CP12-15T	Twelve ST MM, Ceramic Insert	63.25
CCH-CP12-19T	Twelve ST SM, Ceramic Insert	80.00
CCH-CP06-56	Six SC MM, Metal Insert	45.00
CCH-CP06-38	Six SC SM, Ceramic Insert	49.00
CCH-CP12-91	Six Duplex SC MM, Metal Insert	68.00
CCH-CP12-59	Six Duplex SC SM, Ceramic Insert	82.45
CCH-CP06-11	Six FC MM/SM, Ceramic Insert	59.00
CCH-CP12-97	Six MT-RJ MM Adapters	65.00
CCH-CP12-98	Six MT-RJ SM Adapters	75.00
CCH-CP12-A8	Six Duplex LC MM, Ceramic Inserts	93.00
CCH-CP24-E4	Twenty Four-Fiber LC, 10 Gig - Aqua	173.00
CCH-CP12-E7	Twelve-Fiber SC, 10 Gig - Aqua	85.00

CORNING



CCH-CP24-A8



CCH-CP12-91

CORNING CABLE SYSTEMS SPLICE TRAYS

PART #	DESCRIPTION	PRICE
M67-081	Twelve Heat Shrink Sleeves (Type 2S)	\$45.00
M67-110	Twelve Heat Shrink or 6 Ribbon Shrink (Type 4R)	45.00
M67-112	Twenty Four Heat Shrink Sleeves (Type 2S)	45.00
M67-087	Twelve Mechanical Camsplice Splices (Type 4S)	45.00



M67-081



WME-02

AFL WALL MOUNT ENCLOSURES

AFL's wall mount interconnect enclosures provide a convenient convergence point for interconnecting and/or splicing in wall mount applications. Provisioned for LGX compatible adapter plates or optical modules, the enclosure features a well-engineered solution for fiber and cable management on both the ingress and egress openings of the enclosure. All WME series enclosures feature discrete access doors for provider and customer access which are independently lockable with a common pad-lock or tube-style key lock.

PART #	DESCRIPTION	DIMENSIONS	PRICE
WME-02	AFL Wall Mount Enclosure, Accommodates up to (2) LGX 118 adapter panels	12.0"H x 14.0"W x 2.5"D	\$95.00
WME-04	AFL Wall Mount Enclosure, Accommodates up to (4) LGX 118 adapter panels	12.0"H x 14.0"W x 3.63"D	135.00



FM001038-BE



FM001029-BE

AFL SPLICE ENCLOSURES

AFL Telecommunications' fiber termination panels are designed for use as rack mount interconnect point. The AFL enclosures are LGX 118 compatible for adapter panels and cassettes. Standard enclosures are sold empty for complete field configuration. ***Adapter Panels not included.**

PART #	DESCRIPTION	DIMENSIONS	PRICE
FM001038-BE	AFL Patch Panel, 1RU, Accommodates up to (3) LGX118 Adapter Panels	1.75"H x 17"W x 13.51"D	\$120.95
FM001029-BE	AFL Patch Panel, 2RU, Accommodates up to (6) LGX118 Adapter Panels	3.5"H x 17"W x 13.51"D	165.00
C211372-BE	AFL Patch Panel, 4RU, Accommodates up to (12) LGX118 Adapter Panels	7"H x 17"W x 11"D	200.00
C211615-BE	AFL Patch Panel and Splice Bay, 7RU, Accommodates up to (12) LGX118 Adapter Panels/ (3) trays	11"H x 17"W x 12.25"D	299.95



C215993

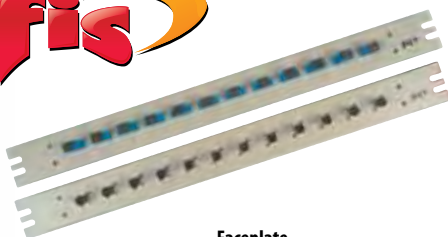


C215935

AFL LGX ADAPTER PANELS

(Ask FIS Sales Rep for other Configurations)

PART #	DESCRIPTION	PRICE
C215971	6 Fiber ST Multimode, LGX 118 adapter plate	\$25.00
C215975	6 Fiber ST Singlemode, LGX 118 adapter plate	20.00
C223576	12 Fiber ST Multimode, LGX 118 adapter plate	25.00
C223571	12 Fiber ST Singlemode, LGX 118 adapter plate	45.00
C215633	6 Fiber SC Multimode, LGX 118 adapter plate	30.00
C215611	6 Fiber SC Singlemode, LGX 118 adapter plate	35.00
FM002276	12 Fiber SC Multimode, LGX 118 adapter plate	46.00
FM002274	12 Fiber SC Singlemode, LGX 118 adapter plate	48.00
FM002275	12 Fiber SC 10GIG Aqua, LGX 118 adapter plate	48.00
C215935	6 Fiber FC Multimode/Singlemode, LGX 118 adapter plate	35.00
C216004	12 Fiber LC Multimode, LGX 118 adapter plate	53.00
C215993	12 Fiber LC Singlemode, LGX 118 adapter plate	53.00
FM002737	24 Fiber LC Singlemode, LGX 118 adapter plate	98.00
FM000852	24 Fiber LC Multimode 10GIG Aqua, LGX 118	102.25



Faceplate
Panel Only

19" FLUSH MOUNT ADAPTER PANEL BRACKETS

PART #	DESCRIPTION	PRICE
F1-2075BK	19" Flush Mount Adapter Panel Bracket for 1RU ST, FC, SMA, Black	\$19.95
F1-2075	19" Flush Mount Adapter Panel Bracket for 1RU ST, FC, SMA, Off White	19.95
F1-2075SCBK	19" Flush Mount Adapter Panel Bracket for 1RU SC, Black	21.95
F1-2075SCP	19" Flush Mount Adapter Panel Bracket for 1RU SC, Off White	21.95



5R1UA-A03



5R2UA-A06

LEVITON OPT-X 500/1000 ENCLOSURES

Leviton OPT-X 500 enclosures are available in 1RU, 2RU and 3RU sizes. One piece removable covers conceal and protect patch cables and allow easy access. Includes two cable tie downs in front and four in rear of enclosure. Mounts on standard 19" rack. OPT-X 1000 series enclosures fit both 19" and 23" rack applications. Enclosures listed are not fitted with a lockable front door.

*Adapter Panels not included.

PART #	DESCRIPTION	DIMENSIONS (HxWxD)	PRICE
5R1UL-F03	1RU, empty, with metal cover (holds (3) OPT-X adapter plates) 500 series	1.75" x 19" x 12"	\$85.00
5R2UL-F06	2RU, empty, with metal cover (holds (6) OPT-X adapter plates) 500 series	3.5" x 19" x 12"	110.00
5W120-00N	12 port Wall Mount holds no splice trays (holds (2) OPT-X adapter plates)	5" x 13" x 3.5"	90.50
5W320-00N	24 port Wall Mount holds (6) splice trays (holds (4) OPT-X adapter plates)	14" x 12" x 5.25"	120.00
5W720-00N	72 port Wall Mount holds (6) splice trays (holds (12) OPT-X adapter plates)	17" x 15" x 5.25"	225.00
5L000-LOK	Add on Lock and Key for Leviton Wall mount enclosures		8.25

LEVITON OPT-X ADAPTER PLATES

Designed to fit all Opt-X enclosures these adapter plates are available loaded with pre-installed fiber optic adapters such as LC, SC, ST, and MTP.

PART #	DESCRIPTION	PRICE
5F100-6MT	Six Pack, Simplex ST SM/MM Adapter plate 6 Fiber (Black)	\$40.60
5F100-2IC	Six Pack, Duplex SC MM Adapter Plate 12 Fiber (Beige)	59.55
5F100-2LC	Six Pack, Duplex SC SM Adapter Plate 12 Fiber (Blue)	59.55
5F100-2VC	Six Pack, Duplex SC/APC, SM Adapter Plate 12 Fiber (Green)	59.55
5F100-2IL	Six Pack, Duplex LC MM 12 Fiber (Beige)	67.65
5F100-2LL	Six Pack, Duplex LC SM 12 Fiber (Blue)	67.65
5F100-2QL	Six Pack, Duplex LC MM (OM3 and 4) 12 Fiber (Aqua)	70.00
5F100-4QL	Six Pack, Quad LC MM (OM3 and 4) 24 Fiber (Aqua)	106.50

*Eight pack adapter plates and other configurations available.

5F100-2LC 5F100-2IL



Rack Mount Accessories

SERVICE VACUUMS

Portable Express Vacuum is just four pounds, easy to operate and comes with ESD safe hose, dust brush, goose neck and service tool. Powerful Omega Vacuum is the quietest, most powerful, with 6ft ESD safe hose, 16in wand and crevice tool.

PART #	DESCRIPTION	PRICE
VACEXP-04	Express Vacuum, ESD Safe, 120v, HEPA Filter	\$199.00
VACEXP-04F	Express Vacuum, ESD Safe, 230v, HEPA Filter	222.00
VACEXP-HEPA	Single Pack HEPA Filter	33.55
VACOMEGASLFH	Omega Supreme HEPA Vacuum, 120v	325.50
VACOMEGAS220FCT	Omega Supreme HEPA Vacuum, 230v	321.50
VACOMEGA-HEPA	Twin Pack HEPA Filter	44.25



VACEXP-04

RACKADP19

RACKADP23

19" FLUSH MOUNT ADAPTER BRACKET

PART #	DESCRIPTION	PRICE
RACKADP19	19" Flush Mount Adapter Bracket (Pair) Blk	\$19.95

23" MOUNTING BRACKETS

PART #	DESCRIPTION	PRICE
RACKADP23	23" Rack Mounting Bracket (Pair) Blk	\$14.95

CABLE MANAGEMENT SPOOLS

PART #	DESCRIPTION	PRICE
F1MCMB	Metal Cable Management Bracket	\$29.95



F1-MCMB

CABLE TIE MOUNTING BASES

Mounting bases are used in conjunction with cable ties to stabilize and secure wiring bundles, both indoors and outside. These mounting bases are secured using a rubber based adhesive. Accommodates T18 through T50 series cable ties.

PART #	DESCRIPTION	PRICE
MB4A10H4	Cable Tie Mounting Bases, Rubber Based Adhesive, T18-T50 Cable tie series, White, 10/Package	\$5.95
MB4A0H4	Cable Tie Mounting Bases, Rubber Based Adhesive, T18-T50 Cable tie series, Black, 10/Package	5.75



F113187

MB4A0H4

CABLE RETENTION RINGS

PART #	DESCRIPTION	PRICE
F113187	Cable Retention Rings - 10pk	\$6.95

BUILD YOUR OWN CUSTOM SPLITTER COUPLER MODULE/PACKAGE

BOX STYLE	CORE/CLAD SIZE	DEVICE/ CHANNELS	CONFIGURATION	SPLIT RATIO	CONN. TYPE (INPUT)	CONN. TYPE (OUTPUT)	OPTIONS
RMC	3	S	2	20	8U	8U	6
RMC = LGX Style Rack Mount RSC = Ruggedized Style Splitter PNC = Packaged Network Coupler BC = No Box, Standard Package RU = 1 RU Panel	1=50/125µm - OM2 2=62.5/125µm - OM1 3=8-9/125µm - OS2 8=50µm10Gig - OM3 10= 50µm10Gig - OM4	S - Splitter/Coupler W - WDM D - DWDM CM-CWDM MUX CD-CWDM Demux AC-1291-1351 BC-1471-1531 CC-1511-1571 DC-1551-1611 LC-1471-1611	2-1x2 3-1x3 4-1x4 5-1x5 6-1x6 7-1x7 8-1x8 12-1x12 16-1x16 32-1x32 64-1x64	01= 01/99 05= 05/95 10= 10/90 20= 20/80 25= 25/75 30= 30/70 40= 40/60 50= 50/50 EV= Even	7= FC/PC 7U= FC/UPC 7A= FC/APC 8= ST/PC 8U= ST/UPC Y=SC/PC YU= SC/UPC YA= SC/APC	7= FC/PC 7U= FC/UPC 7A= FC/APC 8= ST/PC 8U= ST/UPC Y=SC/PC YU= SC/UPC YA= SC/APC	1 - 250µm Bare Fiber 2 - Ruggedized 2mm Jacket 3 - Ruggedized 3mm Jacket 4 - Tree Coupler (Cascade) 5 - 900µm Buffered Fiber 6 - Single Module 7 - Double Module 8 - 1U Rack Mount

**Part # Example:
RMC-3-S-2-20-8U-8U-6**

Translates to: Rack Mount Coupler Module, Single-mode 1x2, 20/80 Split Ratio, ST/UPC Input and Output SINGLE WIDTH MODULE



FIS HIGH PORT COUNT SM COUPLERS

These multiple port splitters are manufactured with high performance fused singlemode couplers and are often referred to as Tree or Star coupler/splitters. Quality splitter boxes feature low insertion loss and can be fused to building cable or terminated with any standard fiber optic connector. Product has 1 meter tails on both ends of packaging. FIS can terminate these splitters prior to delivery, consult with a FIS sales associate.

PART #	DESCRIPTION	DIMENSIONS	PRICE
SSSCA1X43529C	SM Tree Coupler Module, 1x4, 1310/1550nm 900µm	100 X 80 X 10mm	\$65.00
SSSCA1X815510	SM Tree Coupler Module, 1x8, 1550nm, 900µm	125 X 96 X 16mm	115.00
SSSCA1X1615500	SM Tree Coupler Module, 1x16, 1550nm, 900µm	125 X 96 X 16mm	240.00



RACK MOUNTABLE SPLITTER MODULES

These LGX style rack mountable splitter/coupler modules are convenient for quick installation and protect components from being damaged. Simply install module into compatible LGX style fiber enclosure, plug in plant cable and/or patch cables for distribution of optical signal. **Custom configurations/split ratios/connector styles available.**

PART #	DESCRIPTION	PRICE
RMC-3-S-2-50-YU-YU-6	LGX Style Module, 1x2, 50/50 split, SC/UPC	\$175.00
RMC-3-S-2-50-YA-YA-6	LGX Style Module, 1x2, 50/50 split, SC/APC	185.00
RMC-3-S-2-35-YU-YU-6	LGX Style Module, 1x2, 65/35 split, SC/UPC	175.00
RMC-3-S-2-20-YA-YA-6	LGX Style Module, 1x2, 80/20 split, SC/APC	185.00
RMC-3-S-2-10-YA-YA-6	LGX Style Module, 1x2, 90/10 split, SC/APC	185.00



CWDM LGX STYLE MODULES

FIS CWDM LGX modules provide the most economic and efficient wavelength division multiplexing solution. Available in 4, 8 or 16 channel mux and demux configurations. The CWDM modules are bi-directional, have low insertion loss and feature 20nm channel separation. DWDM modules also available. **Other configurations available.**

PART #	DESCRIPTION	PRICE
RMC-3-CM-8-LC-YA-YA-6	CWDM LGX Module, 8 Channel, 1471-1611nm, 20nm spacing, Mux, SC/APC Adapters	\$875.00
RMC-3-CD-8-LC-YA-YA-6	CWDM LGX Module, 8 Channel, 1471-1611nm, 20nm spacing, Demux, SC/APC Adapters	875.00
RMC-3-CM-4-BC-YA-YA-6	CWDM LGX Module, 4 Channel, 1471-1531nm, 20nm spacing, Mux, SC/APC Adapters	449.00
RMC-3-CD-4-BC-YA-YA-6	CWDM LGX Module, 4 Channel, 1471-1531nm, 20nm spacing, Demux, SC/APC Adapters	449.00
RMC-3-CM-4-TC-YA-YA-6	CWDM LGX Module, 4 Channel, 1551-1611nm, 20nm spacing, Mux, SC/APC Adapters	449.00
RMC-3-CD-4-TC-YA-YA-6	CWDM LGX Module, 4 Channel, 1551-1611nm, 20nm spacing, Demux, SC/APC Adapters	449.00

COMPACT CWDM PACKAGE

FIS CWDM compact package features channel spacing of 20nm with wide bandpass characteristics. Available in 4 or 8 channel wavelengths. These compact packages are ultra stable and highly reliable. Commonly used in splice tray applications or outdoor enclosures. **Available in 1291-1611nm channel spacing.**

PART #	DESCRIPTION	PRICE
BC-3-CM-8-LC-YA-YA-5	CWDM Compact Package, 8 Channel, 1471-1611nm, 20nm spacing, Mux, SC/APC Adapters	\$610.00
BC-3-CD-8-LC-YA-YA-5	CWDM Compact Package, 8 Channel, 1471-1611nm, 20nm spacing, Demux, SC/APC Adapters	610.00
BC-3-CM-4-AC-YA-YA-5	CWDM Compact Package, 4 Channel, 1291-1351nm, 20nm spacing, Mux, SC/APC Adapters	310.00
BC-3-CM-4-BC-YA-YA-5	CWDM Compact Package, 4 Channel, 1471-1531nm, 20nm spacing, Mux, SC/APC Adapters	310.00



MTP PRE-TERMINATED SYSTEMS

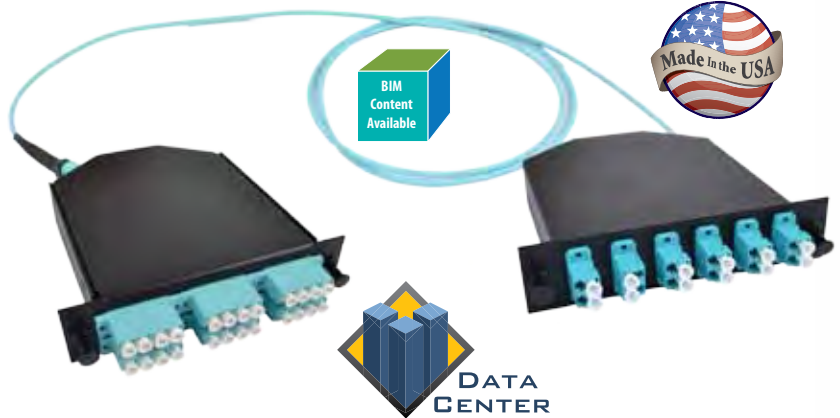
The FIS MTP Module is a pre-terminated, pre-tested, rack mount module system allowing for a simple installation of MTP backbone cables with a transition to standard LC or SC connections. The FIS modules are designed to fit into rack mount boxes with LGX slot configurations. Using a pre-terminated cable assembly in conjunction with modules within a rack allows for easier installation, simpler cable management and an overall simpler installation. Contact your FIS sales representative today for further details or use the part numbers and configurator below to construct the proper combination to meet any requirement.

CUSTOM MTP TRUNK CABLE ASSEMBLY CONFIGURATOR:

Use this chart to build cable you need to your exact specifications.

CABLE STYLE	FIBER	CONN. #1	CONN. #2	MODE	LENGTH (IN METERS)	MFG	FIBER COUNT	JACKET	P/E
MD	8	MT	YU	M	3	FIS	012	PL	X
MD = Micro-Distribution	1 = 50µm MM - OM2 2 = 62.5µm MM - OM1 3 = 9µm SM - OS2 8 = 50µm 10Gig-OM3 10 = 50µm 10Gig - OM4	MT = MTP male MF = MTP female	MT = MTP male MF = MTP female YU = SC/UPC YA = SC/APC LU = LC/UPC LA = LC/APC 8U = ST/UPC 7U = FC/UPC 7A = FC/APC	S = Singlemode M = Multimode			012 = 12-fiber 024 = 24 fiber 036 = 36 fiber 048 = 48 fiber 072 = 72 fiber	R = Riser PL = Plenum LZ = Low Smoke Zero Halogen	P/E = Pulling Eye

- Eliminates the need for in-the-field terminations
- Performance tested to meet or exceed industry standards
- Available in a variety of bulkhead configurations
- Available in a variety of fiber types
- Reduce installation time by up to 30%
- Simplifies cable management and allows for higher density

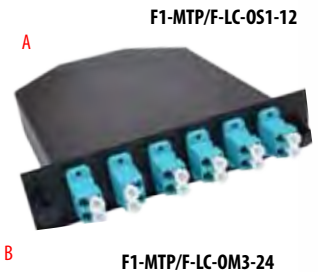


CUSTOM MTP MODULES AND 40/100G CASSETTES AVAILABLE

MTP MODULE

PART #	DESCRIPTION	PRICE
F1-MTP/F-SC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/female port, 6 SC/duplex ports	\$150.00
F1-MTP/F-SC-OS1-12	12-fiber SM, 1 rear MTP/female port, 6 SC/duplex ports	190.00
F1-MTP/F-LC-OM3-12	12-fiber 50µm OM3, 1 rear MTP/female port, 6 front LC/duplex ports	150.00
F1-MTP/F-LC-OS1-12	12-fiber SM, 1 rear MTP/female port, 6 front LC/duplex ports (A)	190.00
F1-MTP/F-LC-OM3-24	24-fiber 50µm OM3, 2 rear MTP/female ports, 6 front LC/quad ports (B)	270.00
F1-MTP/F-LC-OS1-24	24-fiber SM, 2 rear MTP/female ports, 6 front LC/quad ports	350.00

** Also available with MTP / Male Ports and/or SC ports **



MTP TRUNK CABLES

PART #	DESCRIPTION	TERMINATION CABLE PRICE	
		PRICE	
MD-8-MT-MT-M-**-FIS-012-PLN	12-fiber, 50µm 10Gig/OM3, (1) MTP/male - (1) MTP/male, plenum	\$71.50	\$2.68 / Mtr
MD-3-MT-MT-S-**-FIS-012-PLN	12-fiber, 9µm SM/OS1, (1) MTP/male - (1) MTP/male, plenum	84.00	1.37 / Mtr.
MD-8-MT-MT-M-**-FIS-024-PLN	24-fiber, 50µm 10Gig/OM3, (2) MTP/male - (2) MTP/male, plenum	143.00	5.55 / Mtr.
MD-3-MT-MT-S-**-FIS-024-PLN	24-fiber, 9µm SM/OS1, (2) MTP/male - (2) MTP/male, plenum	168.00	2.52 / Mtr.
MD-8-MT-MT-M-**-FIS-036-PLN	36-fiber, 50µm 10Gig/OM3, (3) MTP/male - (3) MTP/male, plenum	214.50	8.25 / Mtr.
MD-3-MT-MT-S-**-FIS-036-PLN	36-fiber, 9µm SM/OS1, (3) MTP/male - (3) MTP/male, plenum	252.00	3.51 / Mtr.
MD-8-MT-MT-M-**-FIS-048-PLN	48-fiber, 50µm 10Gig/OM3, (4) MTP/male - (4) MTP/male, plenum	286.00	11.08 / Mtr.
MD-3-MT-MT-S-**-FIS-048-PLN	48-fiber, 9µm SM/OS1, (4) MTP/male - (4) MTP/male, plenum	336.00	3.69 / Mtr.
MD-8-MT-MT-M-**-FIS-072-PLN	72-fiber, 50µm 10Gig/OM3, (6) MTP/male - (6) MTP/male, plenum	429.00	16.49 / Mtr.
MD-3-MT-MT-S-**-FIS-072-PLN	72-fiber, 9µm SM/OS1, (6) MTP/male - (6) MTP/male, plenum	504.00	4.40 / Mtr.

** Trunk cable pricing = termination + per meter cable **

Example: 50 meter 24-fiber SM cable: \$168.00 (termination) + \$126.00 (\$2.52 x 50 meters) = \$294.00 total





SFR Series



SWING FRAME RACK

- Open-back design maximizes useable wall space
- 90° opening with positive stop facilitates punching down of wires
- Ships ready-to-assemble to reduce space needed for storage and transport
- Abundant tie points and cable pass-throughs ease cable management

PART #	DESCRIPTION	PRICE
SFR-12-18	12RU x 18" Deep swing wall rack	\$269.35
SFR-12-24	12RU x 24" Deep swing wall rack	235.00
SFR-20-18	20RU x 18" Deep swing wall rack	256.75
SFR-20-24	20RU x 24" Deep swing wall rack	300.70
SFR-25-18	25RU x 18" Deep swing wall rack	290.85
SFR-25-24	25RU x 24" Deep swing wall rack	338.25

* Note: the SFR series does not include the patch panels, shelf, cables, or UPS shown in the pictures



WM Series

WALL-MOUNT RELAY RACKS

- Self-aligning design speeds assembly
- Rugged steel construction

PART #	DESCRIPTION	PRICE
WM-8-12	8RU x 12"D wall rack	\$147.45
WM-15-12	15RU x 12"D wall rack	185.00
WM-30-12	30RU x 12"D wall rack	177.85
WM-8-18	8RU x 18"D wall rack	147.45
WM-15-18	15RU x 18"D wall rack	184.35
WM-30-18	30RU x 18"D wall rack	206.00



Open Frame Rack



19" ALUMINUM OPEN FRAME RACK

PART #	DESCRIPTION	PRICE
F1-FR19074502	45RU X 19" Floor Mount Two Post Open Frame Rack – Aluminum Powder Coated Black, Load Capacity 1,000lbs.	\$139.00
F1-FR19074503	45RU X 19" Floor Mount Two Post Open Frame Rack – Aluminum Silver, Load Capacity 1,000lbs.	129.00



BCH64

COOPER B LINE CABLE HOOKS AND CABLE TO BEAM FASTENERS

Cable hooks or J-Hooks are an excellent solution for supporting cables of all types. Cable to Beam fasteners rotate 360 to allow cable to run in any direction and they do accept cable ties. The exclusive Qwik-Latch cable retainers provide secure containment of cables.

PART #	DESCRIPTION	PRICE
BCH21	1-5/16" Cable Hook or J-Hook, Box of 50	\$105.00
BCH32	2" Cable Hook or J-Hook, Box of 50	126.00
BCH64	4" Cable Hook or J-Hook, Box of 25	120.00
BCH21C2	1 5/16" Cable to Beam Fastener, Box of 50	202.00
BCH32-C2	2" Cable to Beam Fastener, Box of 50	218.00



SBTMGB12K

COOPER B LINE TELECOMMUNICATIONS MAIN GROUNDING BAR

Used as a central consolidation point for telecommunications and other low voltage systems within the room. Typically located on wall or entry room where exterior ground enters the building. Kit includes Grounding Bar Assembly, and all necessary hardware.

PART #	DESCRIPTION	PRICE
SBTMGB12K	Telecommunications Main Grounding Bar with Hardware	\$170.00
SBJCC	Copper Antioxidant Joint Compound – improves electrical continuity at grounding connection	30.00

WALL MOUNT ENCLOSURES

Quest Manufacturing Wall Mount Enclosures offer many convenient features. Locking front door is reversible for left or right side opening and swing out feature allows easy access to back of equipment with key lock to prevent tampering with sensitive equipment. Enclosures have vented fixed side panels for better air flow and pre-installed 110VAC 80CFM cooling fans keep equipment running cool. Also includes adjustable cage nut rails and cage nuts with standard #12-24 mounting screws. Rails are marked with RU space index. Ships fully assembled. 20 and 28RU units available – call your sales rep for pricing.

PART #	DESCRIPTION	PRICE
WM3019-07-02	7U Swing Out Wall Mount Enclosure, Black 15"H x 20.5"W x 23.5"D	\$145.75
WM3019-09-02	9U Swing Out Wall Mount Enclosure, Black 18.5"H x 20.5"W x 23.5"D	156.50
WM3019-11-02	11U Swing Out Wall Mount Enclosure, Black 22"H x 20.5"W x 23.5"D	167.25
WM3019-14-02	14U Swing Out Wall Mount Enclosure, Black 27"H x 20.5"W x 23.5"D	185.25
WM3019-16-02	16U Swing Out Wall Mount Enclosure, Black 30.5"H x 20.5"W x 23.5"D	198.25



WW3019-07-02

FLOOR ENCLOSURES

Quest Manufacturing Floor Enclosures offer vented steel mesh front door, dual vented locking rear doors, 3 removable bottom panels for easy access to raised floors or for mounting equipment directly on the floor, adjustable cage nut rails and dual pre-installed cooling fans. 31", 34" and 42" Depth enclosures also available. Ships assembled. Knockdown shipment available, call your sales rep for pricing on units not listed here.

PART #	DESCRIPTION	PRICE
FE7019-34-02	34U Steel Mesh Front Door Floor Enclosure, Black 69"H x 23"W x 23"D	\$555.00
FE7019-40-02	40U Steel Mesh Front Door Floor Enclosure, Black 80"H x 23"W x 23"D	595.90
FE7019-45-02	45U Steel Mesh Front Door Floor Enclosure, Black 88"H x 23"W x 23"D	628.00



FE7019-34-02

VERTICAL CABLE MANAGEMENT

PART #	DESCRIPTION	PRICE
VF-04-100	Vertical Dual Sided Finger Duct Style Cable Manager, Floor Enclosure Style, Black, 48"H x 1.6"W x 4"D	\$19.95
VF-07-100	Vertical Dual Sided Finger Duct Style Cable Manager, Floor Enclosure Style, Black, 72"H x 1.6"W x 4"D	31.50
VF-07-140	Vertical Dual Sided Finger Duct Style Cable Manager, Floor Enclosure Style Black, 72"H x 2.2"W x 6.4"D	46.95
VR-07-140	Vertical Dual Sided Finger Duct Style Cable Manager, 2 Post Rack Style Black, 72"H x 2.2"W x 6.4"D	45.50



VF-04-100

HORIZONTAL CABLE MANAGEMENT

PART #	DESCRIPTION	PRICE
HF19-01-040	Horizontal Single Sided Finger Duct Style Cable Manager, Black, 1.75"H x 1.6"W x 2"D	\$6.95
HF19-02-200	Horizontal Single Sided Finger Duct Style Cable Manager, Black, 3.5"H x 3.2"W x 3.2"D	11.65
HF19-02-200D	Horizontal Dual Sided Finger Duct Style Cable Manager, Black, 3.5"H x 3.2"W x 6.4"D	17.55



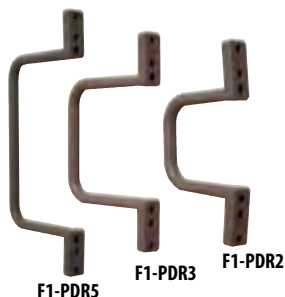
HF19-01-040

HORIZONTAL AND VERTICAL CABLE MANAGEMENT

PART #	DESCRIPTION	PRICE
49300-SM2	Slack Manager (includes 4 spools)-2U	\$34.00
F1-HC1901050	Horizontal Ring Cable Managers, 1RU 4" Ring Depth	10.45
F1-HC1902100	Horizontal Ring Cable Managers, 2RU 4" Ring Depth	17.35
F1-HF1901050	Horizontal Finger Duct Managers, 1RU 2" Depth	8.25
F1-HF1902200	Horizontal Finger Duct Managers, 2RU 2" Depth	12.40
F1-VR07140	Vertical Finger Duct Cable Manager for 2-Post Floor Rack, 6FT Height, Dual Sided	50.00



49300-SM2



F1-PDR5

F1-PDR3

F1-PDR2



VD00034



VD00070

DATA CABLE ACCESSORIES

Utilize plastic distribution rings or "D" rings, attach to a backboard, ceiling or a wall to support voice and data cables. The plastic rings feature rounded edges that will prevent damage to the wire and cable in addition to allowing for easier "pull." Available in 2", 3" or 5" sizes.

PART #	DESCRIPTION	PRICE
F1-PDR2	Plastic Distribution Ring (2")	\$1.40
F1-PDR3	Plastic Distribution Ring (3")	1.95
F1-PDR5	Plastic Distribution Ring (5")	2.25
VD00034	Vertical D-Ring Cable Manager for open frame racks, Depth 3.25" - 10 per pack	22.00
VD00070	Vertical D-Ring Cable Manager for open frame racks, Depth 5.7" - 10 per pack	25.00



CAT 6 AND CAT 5e PATCH CABLES

FEATURES:

- Meet or Exceed Cat 5e Performance Standards
- 4-pair Stranded Unshielded, 24 AWG Conductor Cables
- Non-Plenum (CMR) Rated
- Pre-terminated with 8 Position RJ 45 Plug
- Available in a Variety of Lengths and Colors
- Universal Wiring ANSI/TIA T568A/T568B Standards



CATEGORY 5e STRANDED UNSHIELDED PATCH CABLE WITH SNAGLESS BOOT

MOLEX

PART #	LENGTH	PRICE
PCD-01040-XX	0.5 Mtr.	\$2.25
PCD-01041-XX	1 Mtr.	2.50
PCD-01047-XX	1.5 Mtr.	2.55
PCD-01042-XX	2 Mtr.	2.75
PCD-01043-XX	3 Mtr.	2.90
PCD-01044-XX	5 Mtr.	3.40
PCD-01045-XX	7 Mtr.	4.40

(Note: When ordering, the above Cat 5e cords, replace XX with color: OC=red, OH=Blue, BK=black, OW=white, OE=gray, OK=yellow, OP=purple, ON=Orange, OJ=green)

LEVITON

PART #	LENGTH	PRICE
5G460-03-X	3ft	\$2.25
5G460-05-X	5ft	2.55
5G460-07-X	7ft	2.85
5G460-10-X	10ft	3.40
5G460-15-X	15ft	4.35
5G460-20-X	20ft	5.35

(Note: When ordering the above Cat 5e cords, replace X with color: I=ivory, W=white, G=gray, E=black, O=orange, C=red, Y=yellow, V=green, P=purple, A=almond)

FIS

PART #	LENGTH	PRICE
CT-6080-03-XX	3ft	85¢
CT-6080-05-XX	5ft	\$1.10
CT-6080-07-XX	7ft	1.35
CT-6080-10-XX	10ft	1.90
CT-6080-15-XX	15ft	2.50
CT-6080-25-XX	25ft	3.95

(Note: When ordering the above Cat 5e cords, replace XX with color: BK=black, BU=blue, GN=green, GY=gray, OR=orange, RD=red, WH=white, YE=yellow)

CATEGORY 6 STRANDED, UNSHIELDED PATCH CABLE WITH SNAGLESS BOOT

MOLEX

PART #	LENGTH	PRICE
PCD-02040-XX	0.5 Mtr.	\$4.15
PCD-02041-XX	1 Mtr.	5.00
PCD-02047-XX	1.5 Mtr.	5.25
PCD-02042-XX	2 Mtr.	5.50
PCD-02043-XX	3 Mtr.	5.65
PCD-02044-XX	5 Mtr.	7.80
PCD-02045-XX	7 Mtr.	9.80

(Note: When ordering, the above Cat 6 cords, replace XX with color: OC=red, OH=Blue, BK=black, OW=white, OE=gray, OK=yellow, OP=purple, ON=Orange, OJ=green)

LEVITON

PART #	LENGTH	PRICE
62460-03-X	3ft	\$3.40
62460-05-X	5ft	4.30
62460-07-X	7ft	5.20
62460-10-X	10ft	6.05
62460-15-X	15ft	7.60
62460-20-X	20ft	9.25

(Note: When ordering the above Cat 6 cords, replace X with color: I=ivory, W=white, G=gray, E=black, O=orange, C=red, Y=yellow, V=green, P=purple, A=almond)

FIS

PART #	LENGTH	PRICE
CT-6081-03-XX	3ft	\$1.75
CT-6081-05-XX	5ft	2.10
CT-6081-07-XX	7ft	2.40
CT-6081-10-XX	10ft	2.85
CT-6081-15-XX	15ft	3.75
CT-6081-25-XX	25ft	5.60

(Note: When ordering the above Cat 6 cords, replace XX with color: BK=black, BU=blue, GN=green, GY=gray, OR=orange, RD=red, WH=white, YE=yellow)

**One Week
Lead Time**



CUSTOM COPPER ASSEMBLIES:

Custom Cat 3, 5e 6 and 6A Patch Cords can be made with or without snagless boots. Available in Black, Blue, Green, Pink, Purple, Red, White, and other colors. Each patch cord is tested and verified to ensure performance per TIA standards.

- Any Length
- Any Wiring Configuration
- Any Color
- Booted or Non-Booted
- Labeling Available
- You Provide the Spec
- Cross-over also Available

Other Copper assemblies are available.

Call for more information!



CATEGORY 6 BULK 4 PAIR CABLE

HITACHI

PART #	DESCRIPTION	PRICE
30024-8-XX-2	CAT6 UTP Riser cable (CMR)	\$173.35
30237-8-XX-2	CAT6 UTP Plenum cable (CMP)	307.00

(Note: When ordering, replace XX with BK = Black, BL = Blue, BR = Brown, GA = Gray, GR = Green, RD = Red, WH = White, and YE = Yellow.)

MOLEX

PART #	DESCRIPTION	PRICE
CAA-0181R-XX	CAT6 UTP Riser cable (CMR)	CALL
CAA-0181P-XX	CAT6 UTP Plenum cable (CMP)	CALL

(Note: When ordering, replace XX with 02=white, 08=Lt Grey, BL=blue. These p/n's are boxes.)

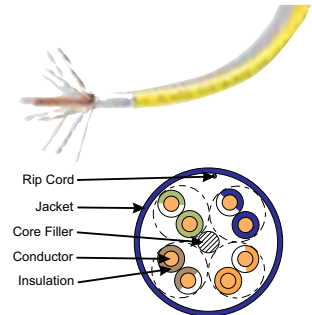
REEMEE CABLE

PART #	DESCRIPTION	PRICE
6A234UTPRM3-X	CAT 6 23awg Riser Cable - 250MHz	\$136.00
6B234UTPM3-X	CAT 6 23awg Plenum Cable - 250MHz	290.00
6B234UTPENHM3-X	CAT 6 23awg Plenum Cable - 550MHz	317.00

(Note: When ordering, replace X with 0-Blue, W-white, Z-Orange, E-Green, G-Gray, Y-yellow)

CAT6 UTP AND CAT 6e UTP FEATURES:

- CAT6 meets or exceeds all of the ANSI/TIA-568-C.2 Specifications
- Standard lengths are 1,000 feet (305 meters)
- 23 AWG, solid conductors



CATEGORY 5e BULK 4 PAIR CABLE

HITACHI

PART #	DESCRIPTION	PRICE
38696-8-XX-2	CAT 5e UTP Riser Cable CMR	\$118.70
39419-8-XX-2	CAT 5e UTP Plenum Cable CMP	186.70

(Note: When ordering, replace XX with BK = Black, BL = Blue, BR = Brown, GA = Gray, GR = Green, RD = Red, WH = White, and YE = Yellow.)

MOLEX

PART #	DESCRIPTION	PRICE
CAA-0184R-XX	CAT 5e UTP Riser cable CMR (100 MHz)	CALL
CAA-0184P-XX	CAT 5e UTP Plenum cable CMP (100MHz)	CALL

(Note: When ordering, replace XX with 02=white, 08=Lt. Grey, BL=blue. These part numbers are boxes.)

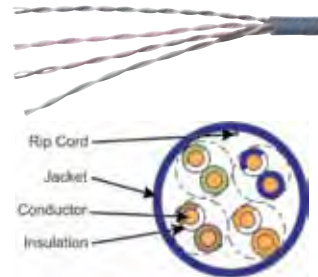
REEMEE CABLE

PART #	DESCRIPTION	PRICE
5AE244UTPRM2-X	CAT 5e Riser Cable - 100MHz	\$87.00
5BE244UTPM2-X	CAT 5e Plenum Cable - 350MHz	184.00
5BE244UTP350M2-X	CAT 5e Plenum Cable - 350MHz	185.00

(Note: When ordering, replace X with 0-Blue, W-white, Z-Orange, E-Green, G-Gray, Y-yellow)

CAT 5e+ AND 5e UTP CABLES FEATURES:

- All cables listed meet or exceed all of the ANSI/TIA-568-C.2 Specifications
- 24 AWG, solid conductors



DID YOU KNOW?

	Category 3	Category 5e	Category 6	Category 6A	Category 7
Voice	•	•	•	•	•
T1 Fractional	•	•	•	•	•
IBM Type 3-1 Mbps	•	•	•	•	•
4/16 Mbps Token Ring	•	•	•	•	•
100BASE-T4 Ethernet	•	•	•	•	•
25.6 Mbps ATM	•	•	•	•	•
100 VG Any LAN	•	•	•	•	•
All other application developed to operate over Category 3 or class C cabling	•	•	•	•	•
100 Mbps TP-PMD	•	•	•	•	•
155 Mbps ATM	•	•	•	•	•
270 Mbps digital video	•	•	•	•	•
Broadband video	•	•	•	•	•
100BASE-TX Fast Ethernet	•	•	•	•	•
1000BASE-T Gigabit Ethernet	•	•	•	•	•
All other application developed to operate over Category 5e or class D cabling	•	•	•	•	•
1000 Mbps ATM (CBIG)	•	•	•	•	•
All other application developed to operate over Category 6 or class E cabling	•	•	•	•	•
10GBASE-T	•	•	•	•	•
All other application developed to operate over Category 6A or class EA cabling	•	•	•	•	•
All other application developed to operate over Category 7 or class F cabling	•	•	•	•	•

Cat 7 Cable standard has not yet been ratified.

Cat 6 UTP will accommodate 10GBASE-T to 37m. Cat 6 ScTP will accommodate 10GBASE-T to 100m.

Obtained from Hitachi Cable Manchester 2009 Product Catalog



33-100



MOLEX SLT3 FEATURES

- Verifies 1, 2, 3, and 4 pair UTP channels
- Unique 3-in-1 design
- Built-in Modular Jacks for USOC, EIA 568A and 568B
- Tests Open and Short Circuits

PART #	DESCRIPTION	PRICE
33-100	SLT3 UTP Single Line Tester	\$62.99



701K



TEMPO COPPER TESTING KITS

When it comes to wire identification, there's no better tool to have than the 701K Classic Tone and Probe Kit, from the world's largest manufacturer of tone and probe kits! This popular tone and probe kit is used by technicians everywhere to identify single conductors or cables within a bundle at a cross-connect point, or at remote ends.

Designed for more accurate wire identification, the 801K virtually eliminates power-related noise from their tone and probe operation. Our finest wire identification kit, the 801K Premium Tone and Probe Kit, offers all the features professionals are looking for.

Tone and Probe Kit Includes: 77HP High Power Tone Generator and the 200EP Inductive Amplifier in a Rugged, Woven Polyester Carrying Case.

PART #	DESCRIPTION	PRICE
701KG	Tone and Probe Kit	\$112.00
801K	Premium Tone and Probe Kit	185.95
45472	Telecom Tech Kit (Pictured)	300.00



NT1150



JDSU VALIDATORPRO

ValidatorPRO Ethernet speed certifier with optical power meter and Ethernet speed certifier with optical power meter, measures optical power on singlemode and multimode fiber. The ValidatorPRO Certifies a network installation to meet 10/100/1000 Mb/s. ValidatorPRO uses Ethernet speed specifications using BER tests as well as Measures Skew, SNR, and cable length along with cable verification tests and hub flash. Includes Plan-Um® software. Also available with Active Network Test.

PART #	DESCRIPTION	PRICE
NT1150	ValidatorPRO Ethernet Speed Certifier with Optical Power Meter	\$1,780.00
NT1155	ValidatorPRO-NT Ethernet Speed Certifier with OPM and Active Network Test	2,515.00



NC-500



NETCAT STRUCTURED WIRING TESTER AND TROUBLESHOOTER

The NETcat® Pro is a digital tool for fast, accurate checking of cables, wiring and network service. Operated using a back-lit touch screen display, the Pro not only tests wiring continuity and proper pair allocation, but measures the length of cables and determines if network service is available.

FEATURES

- Verifies the Integrity of Both Twisted Pair and Coaxial Telecom Cable
- Test Wiring Continuity and Check for the Correct Allocation of Wire Pairs
- Fast, Accurate Checking of Cables, Wiring, and Network Service
- Measures the Length of Cables and Determines if Network Service is Available

PART #	DESCRIPTION	PRICE
NC-100	NETcat Micro Digital Voice and Video Wiring Tester	\$94.00
NC-500	NETcat Pro Digital VDV Wiring Troubleshooter	299.95



TV220

GREENLEE CABLESCOUT® AND TELSCOUT® COPPER TDR FEATURES

- Copper TDR Designed for CATV Applications
- Ideal Choice for Digital Broadband Coax (TV220)
- Designed for Telephone Twisted Pair Applications (TS90) + (TS100)
- All Units Include Test Leads or Cables, Carry Case and Rechargeable Batteries

PART #	DESCRIPTION	PRICE
TV90	CableScout® TV90, 6 and 12ns pulse widths	\$1,635.00
TV220	CableScout® TV220, dual trace, 1, 5 and 25ns pulse widths, trace storage/download	3,945.00
TS90US	TelScout® TS90, 5 to 2500ns pulse widths	1,520.00
TS100-01	TelScout® TS100, 5 to 3000ns pulse widths, trace storage/download	2,700.00

FLUKE DTX CABLE ANALYZERS

The DTX CableAnalyzer Series from Fluke Networks is the testing platform for today - and tomorrow. This revolutionary new future-proof platform significantly reduces total time to certify by improving every aspect of the testing process. The AC Wiremap feature validates twisted-pair cabling for Power over Ethernet services in accordance with TIA/EIA standards, even if a Midspan power supply is used.

FEATURES

- Exceeds Spec Requirements for Cat 5e/6/7 with Superior Level IV Accuracy
- 900 MHz Future-Proofs your Investment for Future Applications such as 10 Gigabit Ethernet, Class F and CATV
- Resident Fiber Modules let you Switch Between Copper and Fiber

PART #	DESCRIPTION	PRICE
DTX-1800120	Cable Analyzer	\$10,950.00
DTX-OTDR-KIT	DTX OTDR Kit	10,575.00
DSX-5000120	1 GHz DSX Cable Analyzer NEW	10,950.00
DSX-5000Q120	1 GHz DSX Cable Analyzer with Fiber Quad OLTS and Inspection Probe NEW	23,575.00
DSX-5000QQ120	1 GHz DSX Cable Analyzer with Fiber Quad OLTS, OTDR and Inspection Probe NEW	40,000.00



DSX-5000



JDSU CERTIFIER40G CABLE CERTIFIER

This next-generation cable certifier maximizes installer productivity with the fastest testing time, saving 30 minutes each time 150 CAT-6A cables are tested. Certifier40G protects your investment with the most advanced tester that certifies beyond TIA-568 standards, with a 1600 MHz measurement frequency. It saves technician time by eliminating unnecessary walking between local and remote units.

FEATURES

- Large Touch Screen at both test ends
- Future proof 1600 MHz testing exceeding Level IV accuracy
- Fast CAT 6A/Class FA test of 9 seconds
- Fastest Tier 1 fiber certification of 8 seconds with optional integrated fiber and end-face inspection

PART #	DESCRIPTION	PRICE
NGC-4500-FA-NA	Certifier40G Cat 6A Master and Remote unit Testing Kit	\$8,800.00
NGC-4500-MM-NA	Certifier40G including 2 MM test adapters, reference cables, and mandrels	12,550.00
NGC-4500-MMSM-NA	Certifier40G Cat 6A Test Kit with MM and SM modules, including adapters and reference cables	18,495.00



NGC-4500-FA-NA

MEGGER STRUCTURED CABLING TESTER (SCT)

The SCT Series is a range of high-performance testers for certifying and evaluating copper and fiber cabling installations. Designed for cable installers and network owners who need to certify the performance of high-speed cabling to today's industry standards and tomorrow's emerging standards, the SCT Series delivers unmatched performance and accuracy.

FEATURES

- Certifies Category 7, 6a, 6, and 5e Cabling
- Exceeds Level IV Accuracy
- 1 to 1,000 MHz Frequency Range
- Powerful Diagnostics Pinpoint the Distance to Link Disturbances on Each Measured Pair
- Low Operating Cost and Superior Reliability

PART #	DESCRIPTION	PRICE
SCT-1500	Tests up to 350MHz	\$6,695.00
SCT-2000	Tests up to 1000MHz	7,448.00

ACCESSORIES

PART #	DESCRIPTION	PRICE
SCT-MMA	Multimode Fiber Adapters (Set of 2)	\$4,050.00
SCT-SMA	Singlemode Fiber Adapters (Set of 2)	5,200.00
SCT-AXT	SCT2000 Alien Crosstalk Adapter	1,575.00



SCT-1500

TEMPO SIDEKICK FAULT TESTER

The Sidekick® Plus Advanced Cable Maintenance Test Set is a multifunction test tool that will improve any technician's testing and troubleshooting capabilities on twisted pair. It uses digital technology to combine VOM and loop current tests, longitudinal balance (Stress Test), transmission and noise, open locator, load coil detection, RFL and a powerful TDR into one easy-to-use test set. Test functions can be selected and used individually, or run automatically by using the innovative Auto-test.

FEATURES

- Patented Stress Test to Measure Audible Noise on a Pair
- The Leakage Test Also Detects Intermittent Resistance Faults Undetectable with a VOM Tester
- Features Transmission and Noise Testing and is Available with a Traditional Analog

PART #	DESCRIPTION	PRICE
1155-5000	Sidekick Plus advanced cable maintenance test set	\$2,715.25
1143-5000	Sidekick VOC	830.00



1155-5000

FIBER INSTRUMENT SALES IS A MOLEX MASTER DISTRIBUTOR



What does being a Master Distributor mean to you?

- Quality Molex Products
- Large In-Stock Inventory
- Same-Day Shipping for Stocked Items
- Outstanding Technical Support
- Exceptional Personal Service
- One-Source Shopping
- Satisfaction Guaranteed!



WSY-00002-01



WPJ-00010-01

MOLEX

PART #	DESCRIPTION	PRICE
WPJ-00007-XX	Streamline Series 1 port Single Gang Wallplate	\$1.05
WPJ-00008-XX	Streamline Series 2 port Single Gang Wallplate	1.05
WPJ-00009-XX	Streamline Series 3 port Single Gang Wallplate	1.05
WPJ-00010-XX	Streamline Series 4 port Single Gang Wallplate	1.05
WPJ-00012-XX	Streamline Series 6 port Single Gang Wallplate	1.30
WSY-00018-XX	Synergy 2 Port Wallplate	1.49
WSY-00002-XX	Synergy 4 Port Wallplate	1.49
WSY-00001-XX	Synergy 6 Port Wallplate	1.49
WSS-00001-XX	Stainless Steel 1 Port Wallplate	2.40
WSS-00002-XX	Stainless Steel 2 Port wallplate	2.40

(Note: When ordering, replace XX above with color: 01=almond, 02=white, 05=ivory)



41089-12E



42777-1XB



41089-6XP

LEVITON

PART #	DESCRIPTION	PRICE
42080-1XS	QuickPort Single Gang 1 port faceplate with designation windows	\$1.40
42080-2XS	QuickPort Single Gang 2 port faceplate with designation windows	1.40
42080-3XS	QuickPort Single Gang 3 port faceplate with designation windows	1.40
42080-4XS	QuickPort Single Gang 4 port faceplate with designation windows	1.40
42080-6XS	QuickPort Single Gang 6 port faceplate with designation windows	1.40
42080-6XP	QuickPort Double Gang 6 port faceplate with designation windows	3.45
42080-8XP	QuickPort Double Gang 8 port faceplate with designation windows	3.45
41087-2XP	QuickPort Duplex 106 insert (fits any standard NEMA duplex faceplate)	1.35
41087-QXP	QuickPort Quad 106 insert (fits any standard NEMA duplex faceplate)	1.95
49910-SX2	QuickPort Standard Modular Furniture 2 port faceplate with ID windows	2.35
49910-SX4	QuickPort Standard Modular Furniture 4 port faceplate with ID windows	2.35
4108W-1SP	QuickPort Stainless Steel Wallplate with rivets for phone/VOIP	7.35
41089-1XP	QuickPort Surface Mount Housing 1 port	1.65
41089-2XP	QuickPort Surface Mount Housing 2 port	1.70
41089-4XP	QuickPort Surface Mount Housing 4 port	3.25
41089-6XP	QuickPort Surface Mount Housing 6 port	5.60
41089-12X	QuickPort Surface Mount Housing 12 port	9.55
42777-1XB	Single Gang Surface Mount Backboxes 1.45" deep	2.85
42777-2XB	Double Gang Surface Mount Backboxes 1.45" deep	5.40

(Note: When ordering, replace X above with color: I=ivory, W=white, G=gray, E=black, (Note: Faceplates without designation windows available.)

(Note: 1.89" deep Backboxes also available)



SKFL-3



DKFL-12

SIGNAMAX

PART #	DESCRIPTION	PRICE
SKFL-1	1 port Single Gang Keystone Faceplate with Labeling Windows	90¢
SKFL-2	2 port Single Gang Keystone Faceplate with Labeling Windows	90¢
SKFL-3	3 port Single Gang Keystone Faceplate with Labeling Windows	90¢
SKFL-4	4 port Single Gang Keystone Faceplate with Labeling Windows	90¢
SKFL-6	6 port Single Gang Keystone Faceplate with Labeling Windows	90¢
SKFLA-2	2 port Angled Single Gang Keystone Faceplate with Labeling Windows	95¢
SKFLA-4	4 port Angled Single Gang Keystone Faceplate with Labeling Windows	95¢
DKFL-6	6 port Double Gang Keystone Faceplate with Labeling Windows	\$1.50
DKFL-12	12 port Double Gang Keystone Faceplate with Labeling Windows	1.50
DKFLA-8	8 port Angled Double Gang Keystone Faceplate with Labeling Windows	1.50
SMB1-SG	Single Gang Surface Mount Faceplate Box	1.97
SMB1-DG	Double Gang Surface Mount Faceplate Box	3.25
SMKL-1	1 port Surface Mount Multimedia Box	1.05
SMKL-2	2 port Surface Mount Multimedia Box	1.40
SMKL-4	4 port Surface Mount Multimedia Box	1.95

[Note: The standard color for all the above is light ivory. For other colors add the following to the p/n -BK (black), -GY (gray), -WH (white)] (Faceplates also available without labeling window option.)

MOLEX JACKS

FEATURES:

- DataGate jacks offer a patented “spring-loaded shutter” which protects it from dust and contaminants, as well as provides tactile feedback
- All jacks feature pointed IDC towers to speed termination and enhance cable retention



PART #	DESCRIPTION	PRICE
KSJ-00018-XX*	DataGate Plus Cat 6 Jack 568A/B	\$5.50
KSJ-00024-XX*	DataGate Plus Cat 5e Jack 568A/B	3.50
KSJ-00033-XX*	Keystone Jack Cat 6 568A/B	7.15
KSJ-00032-XX*	Keystone Jack Cat 5e 568A/B	4.45
KSJ-00005-0X**	Blank Single Position Module	75¢
MSY-00002-0X**	F Video Single Position Module	2.85
MSY-00032-0X**	S Video Single Position Module	7.75
MSY-00036-0X**	BNC Coupler Single Position Module	6.05
MSY-00018-0X**	Simplex SC SM/MM Fiber Module	5.50
MSY-00004-0X**	Simplex ST MM Fiber Module	3.65

* (Note: When ordering, replace XX above with color: 01=almond, 02=white, 04=black, 05=ivory, 08=gray, RD=red, BL=blue, GR=green, YL=yellow, RG=orange, PP=purple)
 ** (Note: When ordering, replace X above with color: 1=almond, 2=white, 4=black, 5=ivory,)



MSY-00018



KSJ-00018



MSY00002-0X



KSJ-00032

LEVITON JACKS

FEATURES:

- QuickPort connectors fit all QuickPort wallplates, multimedia outlets, surface mount housings, modular furniture, patch panels, and mounting plates
- Choose from eXtreme 10G, eXtreme 6+, and Gigamax 5e category rated jacks



PART #	DESCRIPTION	PRICE
61110-RX6	eXtreme 6+ UTP QuickPort Jack	\$6.45
5G110-RX5	Gigamax 5e+ UTP QuickPort component rated jack	4.50
5G108-RX5	Gigamax 5e UTP QuickPort channel rated jack	3.65
41084-BXB	Blank Insert	15¢
41084-SXF	ST QuickPort Fiber Adapter SM/MM	7.60
41085-MXC	SC QuickPort Fiber Adapter MM	7.75
41085-MLX	LC QuickPort Fiber Adapter SM/MM	10.00
41084-BXF	BNC QuickPort Adapter	4.25
41084-FXF	F-type QuickPort Adapter	1.70
40734-SVX	S-Video QuickPort Connector	6.65

(Note: When ordering, replace X above with color: I=ivory, W=white, G=gray, E=black, O=orange, C=red, Y=yellow, V=green, P=purple, A=almond)



41084-FXF



5G108-RX5



40734-SVX



41085-MXC

SIGNAMAX

FEATURES:

- Keystone jacks exceed all performance requirements as defined in TIA/EIA568-B
- Terminated with industry standard 110 or Krone tooling
- Ability to mount either color-coded icon tabs or dust covers



PART #	DESCRIPTION	PRICE
KJMT-8600	4 Pair Termination Tool for MT Series	\$26.55
KJ458MT-C6A*	Cat 6A 10G MT Series Keystone Jack 568A/B Light Ivory	\$5.99
KJ5458TL-C6AC	Cat6A 10G Screened Keystone Jack 568A/B	7.32
KJ458MT-C6C	Cat6+ MT Series Keystone Jack 568A/B Light Ivory	3.60
KJ458MT-C5E*	Cat5E+ MT Series Keystone Jack 568A/B Light Ivory	2.20
KJ126MT-C3**	Cat3 Voice Grade MT Series Keystone Jack Light Ivory	1.85
CMK-BL**	Blank Keystone Module	20¢
CMK-F***	F-Type Keystone Connector Module	\$1.15
CMK-BNC***	BNC Keystone Connector Module	2.05
CMK-110SVHS**	SVGH to 110 Connector Module	2.20
CMK-ST**	ST MM/SM Fiber Connector Module	2.75
CMK-SC**	SC MM/SM Fiber Connector Module	2.98
CMK-LC**	LC MM/SM Fiber Connector Module	8.55

* [Note: When ordering, other than Light Ivory color, add the following to the p/n: -BK (black), -BU (blue), -GN (green), -GR (gray), -OR (orange), -RD (red), -WH (white), -YE (yellow)]

** [Note: When ordering, other than standard Light Ivory color, add following to the p/n: -WH (white)]

*** [Note: When ordering, other than standard Light Ivory color, add following to the p/n: -BK (black), -WH (white), -GR (gray)]



KJ4MT-8600



KJ458MT



KJ458-C6C



CMK-SC

UNSHIELDED RJ-45 MODULAR PLUGS

FEATURES:

- Used for field termination of patch cords and applications
- Designed for 24 AWG stranded or solid cable
- Strain relief boots sold separately

PART #	DESCRIPTION	PRICE
KRJ45/S-100	RJ-45 for 24AWG Stranded Cable - 100 Pack	\$12.21
KRJ45/SSLD-100	RJ-45 for 24AWG Solid Cable - 100 Pack	18.30



RJ-45 Plug



PID-00157



PID-00210

MOLEX

PART #	DESCRIPTION	PRICE
PID-00141	PowerCat Cat 6 24 port 1U	\$125.00
PID-00142	PowerCat Cat 6 48 port 2U	250.00
PID-00156	PowerCat Cat 6 24 port angled 1U	150.00
PID-00157	PowerCat Cat 6 48 port angled 2U	295.00
PID-00174	Datagate Plus Cat 5e 24 port 1U	98.00
PID-00175	Datagate Plus Cat 5e 48 port 2U	188.00
PID-00154	Datagate Plus Cat 5e 24 port angled 1U	110.00
PID-00155	Datagate Plus Cat 5e 48 port angled 2U	210.00
KPD-00077	Cat 5e 12 port Wall Mount 12 port (with 89D bracket)	46.50
25B013G	2U Ring Run Panel	30.00
25B016G	1U Ring Run Panel	25.00
25B035G	1U Deep Ring Run Panel	35.00
25B044G	2U Ring Run Panel with Cover (not shown)	35.00



69586-U48



5G596-U89



5G596-U48

LEVITON

PART #	DESCRIPTION	PRICE
69586-U24	eXtreme 6+ 24 port Pre-configured	\$171.65
69586-U48	eXtreme 6+ 48 port Pre-configured	339.00
5G596-U89	Cat 5E Gigamax Wall Mount 12port (with 89D bracket)	75.00
5G596-U24	Cat 5E Gigamax 24 port Pre-configured	117.00
5G596-U48	Cat 5E Gigamax 48 port Pre-configured	234.00
5G270-U24	QuickPort 5E 24 port preloaded 1U	133.00



48458MD-C5E



12458M-C5E



24458MD-C6C

SIGNAMAX

PART #	DESCRIPTION	PRICE
24458-C6A	Cat 6A 10Gig 1U	\$155.00
48458-C6A	Cat 6A 10Gig 2U	298.00
12458MD-C6C	Cat 6+ 12 port 1U	67.00
24458MD-C6C	Cat 6+ 24 port 1U	106.65
48458MD-C6C	Cat 6+ 48 port 2U	186.00
24458MD-C5E	Cat 5e+ 24 port 1U	65.10
48458MD-C5E	Cat 5e+ 48 port 2U	119.00
12458M-C5E	Cat 5e + 12 port Mini Wall Mount	44.00
24UHDMMMP	24 Port Unloaded Patchpanel Accepts Keystone Jacks	31.00
48UHDMMMP	48 Port Unloaded Patchpanel Accepts Keystone Jacks	43.40

FIBER OPTIC MAGNETIC SENSING

'COVER COP'

News Release

Fiber Instrument Sales has been awarded a Patent (#7,109,873) on a "No Spark" fiber optic magnetic sensor. Unlike other sensing devices that require some type of electricity in the sensing area, the Cover Cop™ electronics may be located kilometers away from objects to be monitored.

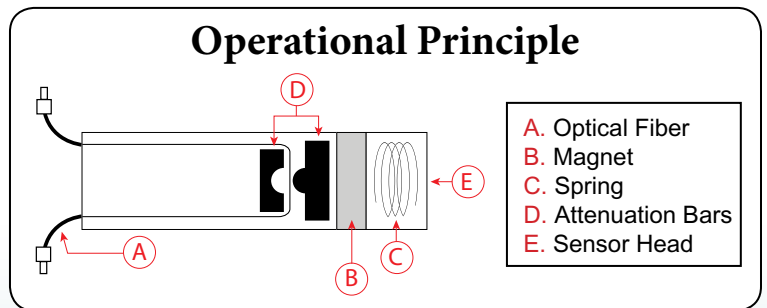
This sensor interrupts the flow of infrared light when a metallic object moves away from the sensor head. Designed for use in "No Spark" environments.



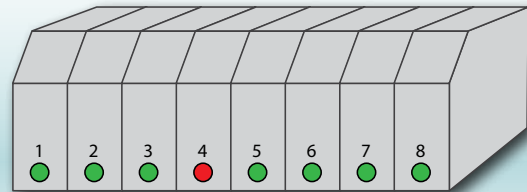
Sensing of a metallic object occurs when the infrared light flow in the fiber is reduced by microbending.



Sensors may be monitored by an OTDR with associated software mapping triggered locations.



OR



Sensor output may be individually connected to a DIN Rail frame with each module containing a relay output.

APPLICATIONS



Manhole Covers



Oil Rig Platforms



Mining Operations



No Spark Environments

LET US ASSIST IN DESIGNING YOUR SYSTEM



F1-0EC32M2-2

FIS BRIDGE MEDIA CONVERTERS

These Ethernet Media Converters meet IEEE Standards and are 10/100Base-TX and 100Base-FX with MDI/MDI-X auto negotiation. Full set of LED Indicators and 10/100Mbps and full/half duplex automatically configured in twisted pair port. Multimode converters have a range of 2km and Singlemode converter has a range of 20km. External power supply included.

PART #	DESCRIPTION	PRICE
F1-0EC32M1-2	10/100 Base-T/TX to 100 Base-FX MM/SC Converter	\$89.00
F1-0EC32M2-2	10/100 Base-T/TX to 100 Base-FX MM/ST Converter	89.00
F1-0EC32S1-202	10/100 Base-T/TX to 100 Base-FX SM/SC Converter	120.00

FIS MEDIA CONVERTER RACK

FIS Media Converter Rack, MCR-1400 is designed to accommodate fourteen separate and independent media converters within a rack-mountable chassis. The rack is fitted with two switching power supplies for enhanced reliability. This means that if one supply should fail, the other is capable of taking over immediately. The MCR-1400 can also be installed in a standard 19-inch site rack; provision has been made for the appropriate connecting brackets.

PART #	DESCRIPTION	PRICE
MCR-1400	Media Converter Rack Mount with redundant power (Not Pictured)	\$207.00



SIGNAMAX MEDIA CONVERTERS

Signamax Connectivity Systems Switching Media Converters provide intelligent solutions for long distance connections between legacy copper networks and new fiber based installations. Extended distance Singlemode, as well as Gigabit versions are also available. Use the same converters for either wall or chassis mount. **Lifetime warranty.**



065-1110



PART #	DESCRIPTION	DISTANCE	PRICE
065-1100	10/100 Base-T/TX to 100 Base-FX, MM/ST (with link fault signaling)	2km	\$90.00
065-1110	10/100 Base-T/TX to 100 Base-FX, MM/SC (with link fault signaling)	2km	90.00
065-1120	10/100 Base-T/TX to 100 Base-FX, SM/SC (with link fault signaling)	15km	236.00
065-1120ED	10/100 Base-T/TX to 100 Base-FX, SM/SC (with link fault signaling)	40km	390.00
065-1174	10/100 Base-T/TX to 100 Base-FX MM/LC (with link fault signaling)	2km	160.00
065-1130	100 Base-FX, SM/SC to 100 Base-FX MM/ST	15km SM / 2km MM	432.00
065-1132	100 Base-FX, SM/SC to 100 Base-FX MM/SC	15km SM / 2km MM	432.00
065-1132ED	100 Base-FX, SM/SC to 100 Base-FX MM/SC	40km SM / 2km MM	556.00
065-1196A	10/100/1000 Base-T/TX to 1000 Base-FX, MM/SC Switching	220m (62.5) / 550m (50)	310.00
065-1195	1000 Base-TX to 1000 Base-SX MM/SC Gigabit Converter	220m (62.5) / 550m (50)	291.50
065-1194	1000 Base-LX SM/SC to 1000 Base-SX MM/SC Gigabit Converter	10km SM / 220m (62.5) / 550m (50)	868.00
065-1197	1000 Base-T to 1000 Base-LX SM/SC (with link fault signaling)	10km	496.00
065-1200ST00	12-Channel Media Converter 10/100 Base-T/TX to 100 Base-FX ST/MM	2km	1,264.00
065-1200SC95	12-Channel Media Converter 1000 Base-TX to 1000 Base-SX SC/MM	220m(62.5) / 550m (50)	2,914.00

SIGNAMAX RACK MOUNT MEDIA CONVERTER CHASSIS

The Signamax 16-Bay Rack Mount Media Converter Chassis provides higher rack mount media converter density for large installations that can accommodate rear access to the chassis for power supply maintenance; space for all 065-11xx series Signamax media converters in a standard two rack unit high enclosure.

PART #	DESCRIPTION	PRICE
065-1185	16 Bay Rack Mount Media Converter Chassis	\$450.00



CS Series Converters

GARRETTCOM MAGNUM MEDIA CONVERTERS - YELLOW LABEL

GarrettCom offers a full line of Converter Switches. These Converters have two 10/100 RJ-45 ports with a wide variety of fiber offerings. They are also available in AC and DC models with 12, 24 and 48 VDC versions available. They are all DIN Rail Mountable with the purchase of a DIN Rail Mounting Kit. They are also available in three levels of ruggedness. The Yellow Label or Standard version is designed for the office and wiring closet. Please contact your FIS Representative for part numbers and pricing on any units you do not see listed.

PART #	DESCRIPTION	PRICE
CS14SC	Converter Switch with One 100 Base-FX SC/MM and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	\$197.50
CS14ST	Converter Switch with One 100 Base-FX ST/MM and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	197.50
CS14SSC	Converter Switch with One 100 Base-FX SC/SM (15km) and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	542.50
CS14SSCL	Converter Switch with One 100 Base-FX SC/SM (40km) and Two 10/100 RJ-45 Ports YELLOW Label (Office Rated)	760.00

GARRETTCOM RACK MOUNT TRAY FOR MEDIA CONVERTERS

Rack mount (19 inch RETMA) tray, rugged metal construction. Holds any combination of 10Mb, 100Mb, Gb. Fits Magnum converter switches, convenient switches, edge switches and media converters.

PART #	DESCRIPTION	PRICE
MC14TRAY	Rack mount Tray for 16 Converter Switches	\$140.00



FIS THREE-PORT MINI SWITCHES

FIS mini-switches provide a simple and inexpensive way to add additional computers to a network. The 3-Port Mini Switch has (2) 100Mbps fiber ports and (1) 10/100Mbps twisted pair copper port. Meets IEEE 802.3, 802.3u and 802.3X Standards. This switch provides Media conversion for TP and fiber optic media types and extends network spans and has 10/100Mbps, auto-negotiation on the twisted pair port. External power supply included.

PART #	DESCRIPTION	PRICE
F1-SWMM1	3-Port Mini Switch with (2) 100Base-FX MM/SC and One 10/100Base-T/TX Port	\$165.00
F1-SWSM1	3-Port Mini Switch with (2) 100Base-FX SM/SC and One 10/100Base-T/TX Port	265.00



F1-SWMM1

FIS EIGHT-PORT DESKTOP SWITCHES

This 8-Port Switch is an inexpensive way to connect remote LAN devices using existing fiber backbone. FIS has 8-Port Desktop Switches with one fiber port in each. The 8-port switch has (1)100 Base-FX and (7) 10/100 Base-T/TX ports. Multimode units support up to 2km and Singlemode up to 20km. External power supply included.

PART #	DESCRIPTION	PRICE
F1-JC08A-MS	8-Port Switch with 1 MM/SC Fiber Port and (7) 10/100 Twisted Pair Ports	\$122.00
F1-JC08A-MT	8-Port Switch with 1 MM/ST Fiber Port and (7) 10/100 Twisted Pair Ports	122.00
F1-JC08A-S2	8-Port Switch with 1 SM/SC Fiber Port and (7) 10/100 Twisted Pair Ports	215.00



FIS 8-Port Mini Switches

SIGNAMAX UNMANAGED DESKTOP FIBER ACCESS SWITCHES

Signamax Desktop Fiber Access Switches are compact and provide (7) 10/100 Base-T/TX auto NDIX ports and (1) 100 Base-FX port. Also available in ST and LC Multimode. Available in Singlemode versions as well.

PART #	DESCRIPTION	PRICE
065-7111SC	(7) 10/100 Base-T/TX and (1) 100 Base-FX Multimode SC Ports	\$149.00
065-7111ST	(7) 10/100 Base-T/TX and (1) 100 Base-FX Multimode ST Ports	149.00
065-7111SM	(7) 10/100 Base-T/TX and (1) 100 Base-FX Singlemode SC Ports	278.66



065-7111SM

SIGNAMAX UNMANAGED POWER OVER ETHERNET SWITCHES

This new 8-Port 10/100 Base-T/TX Power over Ethernet (PoE) Full-Power switch provides the capability to remotely power up to eight wireless access points, VoIP telephones, Powered Device (PD) media converters, and other devices that meet the IEEE 802.1af PoE standard.

PART #	DESCRIPTION	PRICE
065-7308POE-FP	8 Port 10/100 Base-T/TX Unmanaged Full Power Switch with 8 PoE Ports	\$253.00
065-7308POE-FPRM	Rack Mount Kit for 065-7308POE	13.00



065-7308POE-FP

SIGNAMAX MANAGED FIBER ETHERNET ACCESS SWITCHES

Signamax Connectivity Systems' new 065-7734 series switches with redundant power supplies are flexible and highly reliable edge extension switches capable of fiber-based or twisted-pair expansion for large networks. They incorporate modern QoS and Tagged VLAN capabilities, and full SNMP management at a surprisingly low cost.

See SFP modules on page 160.

PART #	DESCRIPTION	PRICE
065-7734	24 Ports 100 Base-SFP Slots + 4 10/100/1000 Base-T/TX Dual Media Ports with 1000 Base-SFP Slots and Redundant Power Supplies	\$3,500.00



065-7734

SIGNAMAX MANAGED AND WEBSMART ETHERNET SWITCHES

These switches provide non-blocking performance for 24 10/100 and 24 10/100/1000 Gigabit Ethernet connections, modern QoS and tagged VLAN capabilities, and full SNMP management at a surprising low cost. Two dual media Gigabit Ethernet ports use auto-detected Small Form-Factor Pluggable (SFP) modules for fiber optic switch interconnection at extended distances.

PART #	DESCRIPTION	PRICE
065-7940CWS	24 Port 10/100/1000 Base-T/TX Websmart Switch + 4 SFP Ports	\$434.00
065-7861	12 Port 10/100/1000 Base-Stackable	856.00



065-7841

SIGNAMAX MANAGED POWER OVER ETHERNET SWITCHES

This new stackable managed power over ethernet (PoE) switch provides the capability to remotely power wireless access points, VoIP telephones, powered device media converters and other devices that meet the IEEE 802.1af PoE standard.

PART #	DESCRIPTION	PRICE
065-7726SPOE	24 Port 10/100 Base-T/TX Stackable Managed Layer 2 PoE Switch with 4-SFP Dual Media Port + 2 - 100/1000 SFP Only Ports	\$1,480.00
065-7726SPOE-FP	24 Port 10/100 Base-T/TX Stackable Managed Layer 2 PoE Full Power Switch with 4-SFP Dual Media Port + 2 - 100/1000 SFP Only Ports	2,260.00



065-7726SPOE

Harsh and Industrial Environment Network Equipment

Many times Ethernet devices are needed in Harsh or Industrial environments. Typical converters and switches will not operate correctly under these extreme working conditions. The answer to this problem is to use Hardened or Industrial network equipment. This equipment is necessary with Traffic Control Devices, on Wind Farms, in Coal Mines, on factory production floors, where there is exposure to temperature extremes, where dust and contaminants exist, and where power limitations are present.

Industrial network equipment must withstand dirt, humidity, and extreme temperatures. Garrettcom Industrial Switches use an advanced thermal design with a ribbed heavy duty aluminum case that eliminates the need for fan cooling; this makes the device totally sealed to the environment and keeps dust and particles out of the switch. The switch is also available with either Light Duty (5 mil) coating to eliminate humidity or a Heavy Duty (8 mil) coating for use in corrosive environments. Power ranges from 18 – 70 VDC and AC are also available.

Hardened Ethernet devices are most commonly used in outdoor environments by utility and Traffic Control Device companies. Ambient temperature ranges from -40° to 170°F (-40° to 75°C) are common requirements among Hardened Devices. Garrettcom makes these devices available with 48VDC, 5VDC, 24VDC, 125VDC or 250VDC power supplies.

SIGNAMAX



065-1800TB

SIGNAMAX DIN-RAIL INDUSTRIAL HARDENED MEDIA CONVERTERS

Signamax Din-Rail Industrial Hardened Media Converters have been developed to operate in harsh industrial environments that require ruggedized equipment that can operate in severe temperature extremes. These media converters are an affordable solution for outdoor environments, transportation roadside systems, shop floors, and other harsh environments where consistent operation at temperature extremes of -40°F to 176°F (-40°C to 80°C) is necessary.

(Meets NEMA TS1 Environmental Requirements for Traffic Control Equipment)

PART #	DESCRIPTION	PRICE
065-1800TB	10/100 Base-T/TX to 100 Base-FX, ST MM, 2 km, 24 V DC Redundant Power Terminal Block	\$310.00
065-1810TB	10/100 Base-T/TX to 100 Base-FX, SC MM, 2 km, 24 V DC Redundant Power Terminal Block	310.00
065-1820TB	10/100 Base-T/TX to 100 Base-FX, SC SM, 15 km, 24 V DC Redundant Power Terminal Block	484.00
065-1820EDTB	10/100 Base-T/TX to 100 Base-FX, SC SM, 40 km, 24 V DC Redundant Power Terminal Block	645.00
065-1820XLDTB	10/100 Base-T/TX to 100 Base-FX, SC SM, 75 km Span, 24 V DC Redundant Power Terminal Block	1,066.50
DC-1824-30W	24 Volt DC Power Supply 30 Watt AC or DC Input 60, 75, 125 Watt models also available	77.50



065-7408PTB



065-7408P1FXSTTB

SIGNAMAX UNMANAGED HARDENED INDUSTRIAL SWITCHES

Signamax's 5, 8, and 9 Port Hardened Industrial DIN-Rail Mount Switches have been developed to operate in harsh industrial environments that require ruggedized equipment that can operate in severe temperature extremes. These switches are an affordable solution for outdoor environments, transportation roadside systems, shop floors, and other harsh environments where consistent operation at temperature extremes of -40°F to 167°F (-40°C to 75°C) is necessary.

(Meets NEMA TS1 and TS2 Environmental Requirements for Traffic Control Equipment)

PART #	DESCRIPTION	PRICE
065-7405TB	5 10/100 Base-T/TX ports, 24 V DC Redundant Power Terminal Block	\$248.00
065-7408ATB	8 10/100 Base-T/TX ports, 24 V DC Redundant Power Terminal Block	269.00
065-74091FXSCTB	8 10/100 Base-T/TX ports, + 1 100 Base-FX SC Multimode port, 2 km Span	559.00
065-74091FXSTTB	8 10/100 Base-T/TX ports, + 1 100 Base-FX ST Multimode port, 2 km Span	559.00
065-7408PTB	8 10/100 Base-T/TX ports (4 PoE), 48 V DC Redundant Power Terminal Block	609.00
065-7408P1FXSCTB	7 10/100 Base-T/TX ports (4 PoE) + 1 100 Base-FX SC Multimode port, 2 km span	912.00
065-7408P1FXSTTB	7 10/100 Base-T/TX ports (4 PoE) + 1 100 Base-FX ST Multimode port, 2 km span	912.00
065-7408P1FXSMTB	7 10/100 Base-T/TX ports + 1 100-Base-FX SC Singlemode port, 15 km span	1099.00

(Alternate fiber port configurations for the above are also available by special order.)

065-7714HSFPTB



SIGNAMAX MANAGED 12 PORT 10/100 BASE HARDENED SWITCH

This Hardened Managed Switch is designed to operate in rugged environments with extreme temperature conditions -40° F to 167° F (-40° C to 75° C). It is equipped with twelve 10/100 Base T/TX RJ45 ports and two Dual Media 10/100/1000 Base T/TX ports in a compact package with a variety of mounting options.

PART #	DESCRIPTION	PRICE
065-7714HSFPTB	12-Port 10/100 Hardened Managed Switch + 2 SFP/RJ-45 Gigabit Dual Media Ports	\$849.00

(Optional Mounting Hardware Kits and Hardened SFP Gigabit Ethernet Modules sold separately.)

GARRETTCOM MAGNUM MEDIA CONVERTERS - ORANGE AND RED LABEL

These Converters have two 10/100 RJ-45 ports with a wide variety of fiber offerings. They are also available in AC and DC models with 12, 24, and 48 VDC versions available. They are all DIN Rail Mountable with the purchase of a DIN Rail Mounting Kit. They are also available in three levels of ruggedness. The Orange Label or Hardened units are designed for factory floor applications, and the Red Label or Premium versions are rated for uncontrolled temperature applications, typically outdoors. Please contact your FIS Representative for part numbers and pricing on any units you do not see listed.

PART #	DESCRIPTION	PRICE
CS14HSTHD	Hardened Converter Switch with One 100 Base-FX ST/MM and Two 10/100 RJ-45 Ports - Industrial Rated	\$300.00
CS14HSCHD	Hardened Converter Switch with One 100 Base-FX SC/MM and Two 10/100 RJ-45 Ports - Industrial Rated	300.00
CS14HSSCHD	Hardened Converter Switch with One 100 Base-FX SC/SM and Two 10/100 RJ-45 Ports - Industrial Rated	640.00
CSG14PSXPD	Hardened Converter Switch with One 1000 Base-SX SC/MM and Two 10/100/1000 RJ-45 Ports - Industrial Rated	585.00
CS14PSTPD	Premium Converter Switch with One 100 Base-FX ST/MM and Two 10/100 RJ-45 Ports - Harsh Environment Rated	415.00
CS14PSCPD	Premium Converter Switch with One 100 Base-FX SC/MM and Two 10/100 RJ-45 Ports - Harsh Environment Rated	415.00
CS14PSSCPD	Premium Converter Switch with One 100 Base-FX SC/SM and Two 10/100 RJ-45 Ports - Harsh Environment Rated	755.00
CSG14HSXHD	Premium Converter Switch with One 1000 Base-SX SC/MM and Two 10/100/1000 RJ-45 Ports - Harsh Environment Rated	470.00



CS Series Converters

GARRETTCOM UNMANAGED MAGNUM EDGE SWITCHES - ORANGE AND RED LABEL

The Magnum Edge Switch series has a 2 fiber port version also has (4) 10/100 twisted pair ports and the single fiber port versions have (5) 10/100 twisted pair ports. The units can be used in self-healing redundant LANs, with two sets of LEDs for viewing from any direction. The Magnum ES series is available with 2 ratings, hardened for factory floors and premium for outdoor temperatures. Available in a large variety of connector styles, please contact your FIS representative for availability.

PART #	DESCRIPTION	PRICE
ES42H-2SC-HD	6 Port Switch, 2 MM/SC Fiber 100Mbps Ports and (4) 10/100Mbps Ports - Industrial Rated	\$510.00
ES42P-2SC-HD	6 Port Switch, 2 MM/SC Fiber 100Mbps Ports and (4) 10/100Mbps Ports - Harsh Environment Rated	620.00



ES42 Edge Switch

GARRETTCOM UNMANAGED MAGNUM HARDENED ETHERNET CONVERTER SWITCHES

The new Magnum CSG14U Universal Hardened Converter Switch can handle any Gigabit fiber type - Multimode and Singlemode and fiber media distance with a selection of 1 Gbps or 100 Mbps SFP fiber transceivers, up to two of which can be plugged in. For copper media attachment, there is a 10/100/1000 auto-negotiating RJ-45 port.

PART #	DESCRIPTION	PRICE
CSG14UH-HD	Hardened Gigabit Ethernet Converter Switch with 2 open SFP Transceiver ports and 1 triple 10/100/1000 RJ-45 Switch Port 115 VAC Power Supply	\$510.00
CSG14UH-HI	Hardened Gigabit Ethernet Converter Switch with 2 open SFP Transceiver ports and 1 triple 10/100/1000 RJ-45 Switch Port 230 VAC Power Supply	510.00
CSG14UH-24VDC	Hardened Gigabit Ethernet Converter Switch with 2 open SFP Transceiver ports and 1 triple 10/100/1000 RJ-45 Switch Port 24 VDC Power Supply	530.00



THE MAGNUM 12KX GIGABIT MANAGED SWITCH

The GarrettCom Magnum 12KX Managed Switch features 16 combo ports for copper and/or fiber and advanced bandwidth capacity. The workhorse backbone switch includes optional Layer 3 switching capability, which allows the switch to more rapidly route large amounts of data in applications using complex networking including VLANs on multicast routing strategies.

MAGNUM12KX CALL FOR PRICING



12KX Managed Switch

THE MAGNUM 10KX GIGABIT MANAGED SWITCH

The GarrettCom Magnum 10KT Configurable Managed Switch provides rackmount space efficiency and advanced port configurability for heavy duty industrial applications where maximum fiber port count and diversity are required. New advanced thermal design techniques enable the 10KT to deliver high reliability and configurability even at extended operating temperatures. Special optional rackmount cooling features include Thermal Fins for extra heat dissipation and internal heat transfer techniques that use the case as a heat sink. Cooler operation of internal electronic components leads to longer lifetime and increased reliability.

MAGNUM10KX CALL FOR PRICING



10KX Managed Switch

THE MAGNUM DX940

The GarrettCom Magnum Configurable Industrial Router with Cellular combines WAN access, IP routing, Ethernet switching, Serial-to-IP terminal services and advanced security features in a small-footprint industrial package suitable for small and mid-sized remote sites such as electrical substations, renewable power generation facilities and transportation control pedestals. With 3G wireless capability, as well as configurable port options for 10/100 and 1Gb copper and fiber media, the DX940 secure access even where wireline is too difficult or too expensive to deploy.

MAGNUMDX940 CALL FOR PRICING



DX940 Router

Small Form Pluggable (SFP)

A small form pluggable (SFP) module is a compact, hot-pluggable transceiver used in Ethernet LAN applications. The SFP is used to configure an undefined network port for your specific application (Multimode, Singlemode or Copper (UTP)). The SFP transceiver is not standardized by any official standards body, but rather is specified by a multi-source agreement (MSA) between competing manufacturers. Most Ethernet devices follow the MSA format however Cisco, Avaya, Juniper, Extreme and Enterasys devices use their own proprietary SFP modules and must be ordered as such.

BUILD YOUR OWN CUSTOM SFP

ITEM NUMBER INITIALIZER	INTERFACE	DISTANCE	PROTOCOL	COMPATIBILITY
F1-SFP	S	20	1G	CS
	M = Multimode S = Singlemode	1 = <10km (SR, LRM) 10 = 10km (LX, LH, LR) 15 = 15km 40 = 40km (EX, ER) 80 = 80km (ZX, ZR) 120 = 120km 120+ = > 120km	40G = 40 Gigabit Ethernet 10G = 10 Gigabit Ethernet 1G = Gigabit Ethernet FE = Fast Ethernet	MS = MSA Standard CS = Cisco Systems AV = Avaya JN = Juniper EX = Extreme ET = Enterasys

EXAMPLE : F1-SFP-S-10-1G-CS FIS LIST PRICE: \$60.00



FIBER INSTRUMENT SALES SFP MODULES DESIGNED SPECIFICALLY FOR YOUR NETWORK

The FIS SFP fiber modules are custom built to order, to fit your network's specifications. Use the chart above to create your custom part number. When ready contact a FIS sales rep for ordering information.



PART #	DESCRIPTION	PRICE
F1-SFP-M-1-FE-XX	100 Mbps LC/MM 850nm 2km range "Choose Compatibility"	\$60.00
F1-SFP-S-10-FE-XX	100 Mbps LC/SM 1310nm 10km range "Choose Compatibility"	70.00
F1-SFP-M-1-1G-XX	1 Gbps LC/MM 850nm 550m range "Choose Compatibility"	60.00
F1-SFP-S-10-1G-XX	1 Gbps LC/SM 1310nm 10km range "Choose Compatibility"	60.00
F1-SFP-S-40-1G-XX	1 Gbps LC/SM 1310nm 40km range "Choose Compatibility"	175.00
F1-SFP-S-80-1G-XX	1 Gbps LC/SM 1550nm 80km range "Choose Compatibility"	225.00
F1-SFP-M-1-10G-XX	10 Gbps LC/MM 850nm 300m range "Choose Compatibility"	135.00
F1-SFP-S-10-10G-XX	10 Gbps LC/SM 1310nm 10km range "Choose Compatibility"	295.00



SIGNAMAX HARDENED SFP FIBER MODULES MSA COMPATIBLE

Signamax's SFP fiber modules come in an array of options supporting Gigabit Ethernet transmission over either Multimode or Singlemode fiber cable at distances up to 110 kilometers at temperature ranges of -40°C to 85°C.



PART #	DESCRIPTION	PRICE
065-79SXMG-H	1000 Base-SX Hardened SFP Module - MM/LC, 850nm	\$189.00
065-79LXMG-H	1000 Base-LX Hardened SFP Module - SM/LC, 10km, 1310nm	225.00
PART #	DESCRIPTION	PRICE
065-79LX2WDMA1550	WDM 1.25 Gbps SFP Module Tx: 1310 nm / Rx: 1550 nm - SM/LC Simplex, 20 km	300.00
065-79LX2WDMB1550	WDM 1.25 Gbps SFP Module Tx: 1550 nm / Rx: 1310 nm - SM/LC Simplex, 20 km	430.00



GARRETTCOM SFP GIGABIT MODULES MSA COMPATIBLE

The GarrettCom SFP Modules come in Singlemode or Multimode and support Gigabit Ethernet transmission at distances up to 40km.



PART #	DESCRIPTION	PRICE
SFP-SX	1000 Mbps SX, 550 M Distance, LC/MM 850nm	\$133.25
SFP-ESX	1000 Mbps Ext SX 2 km Distance, LC/MM 1310nm	234.85
SFP-LX10	1000 Mbps LX, 10 km Distance, LC/SM 1310nm	217.10
SFP-LX25	1000 Mbps LX, 25 km Distance, LC/SM 1310nm	448.40



TRANSITION NETWORKS SFP GIGABIT MODULES CISCO COMPATIBLE

The Transition Networks TN-GLC series small form factor pluggable (SFP) transceiver modules are designed to install in any Cisco Networks compatible SFP port allowing for 1000 Base-T, 1000 Base-SX or 1000 Base-LX interfaces to the network through the SFP connector.

PART #	DESCRIPTION	PRICE
TN-GLC-SX-MM	SFP Cisco Compatible 1000 BSX MM LC 550M 3.3V	\$204.35
TN-GLC-SX-MM-2K	SFP Cisco Compatible 1000 BFX 1310NM Extended MM LC 2KM	972.65
TN-GLC-LH-SM	SFP Cisco Compatible 1000 BLX SM LC 10KM 3.3V	408.90

GPON OLTs (Optical Line Terminals)

FIS offers two OLTs for supporting both GPON and Active Ethernet. The V5812G is a compact hardened 1RU chassis equipped to support up to 4 GPON ports. The second unit is a 7RU chassis with the capacity to support a mix of up to (10) GPON and/or Active Ethernet (SIU) Subscriber Interface Units. The GPON SIUs are available with 4 GPON ports or an optional (4) primary and (4) secondary PON path protection ports for ring type applications.

V5812G 1RU HARDENED OLT

PART #	DESCRIPTION	PRICE
V5812G	1RU OLT, 4-Slot Chassis (4 GPON ports) Hardened 128 subs max with 1:32 split, 256 with a 1:64 split	Project Priced
PWR-6424F1-DC	DC Power Module (redundant requires 2)	Project Priced
PWR-6424F1-AC	AC Power Module (redundant requires 2)	Project Priced



V5812G

V8240 10 SLOT OLT

PART #	DESCRIPTION	PRICE
V8240	10-Slot OLT Chassis (40 GPON or 240 AE Ports)	Project Priced
SFU-V8240	Switching fabric unit for V8240 MGMT, Console	Project Priced
NIU-10GE2+-V8240	2-port 10GE XFP and 4-port 1GE SFP network interface unit	Project Priced
PSU-DC-A	DC power supply unit Alarm, D-Sub Connector	Project Priced
PSU-AC-A	AC power supply unit Alarm, D-Sub Connector	Project Priced
FAN-V8240	Fan unit for V8240	Project Priced
SIU-GPON4	4-port GPON subscriber interface unit for V8240	Project Priced
SIU-GPON4R	4-port GPON Redundancy subscriber interface unit	Project Priced
SIU-AE	24 (CE) Active Ethernet Subscriber interface unit	Project Priced
CIU	Control interface unit	Project Priced



V8240

OLT SFPS

PART #	DESCRIPTION	PRICE
SFP	Various SFPs designed for both 1 Gbe and 10 Gbe, as well as various distances	Project Priced
SFP-GPON-OLT20	SFP-GPON-OLT-20km-SC-PC	Project Priced
SFP-GPON-OLT30-FJ	SFP-GPON-OLT-30km-SC-PC	Project Priced

INDOOR OPTICAL NETWORK TERMINALS (ONTS)

PART #	DESCRIPTION	PRICE
640G	(4) GbE Ports	Project Priced
640GV	(4) GbE Ports, (2) POTs Ports	Project Priced
640GW	(4) GbE Ports, (2) POTs Ports, (1) 802.11 b/g/n	Project Priced
640GR	(4) GbE Ports, (2) POTs Ports, (1) RF Port	Project Priced
645G	(1) GbE Port	Project Priced



640G

OUTDOOR OPTICAL NETWORK TERMINALS (ONTS)

PART #	DESCRIPTION	PRICE
695R	Outdoor ONT, (4) GbE Ports, (2) POTs Ports, (1) RF Port	Project Priced
695RT	Outdoor ONT, (4) GbE Ports, (2) POTs Ports, (1) RF Port with RF Return	Project Priced



695R

MULTI-TENANT (MDU) OPTICAL NETWORK TERMINALS

PART #	DESCRIPTION	PRICE
V1916GR-V1908RF	16-Port 100/1000 Base-X, 8 POTs (RJ-11), (8) Addressable RF Ports	Project Priced
V1916GR-V1908RT	16-Port 100/1000 Base-X, 8 POTs (RJ-11), (8) Addressable RF Ports with RF Return	Project Priced



V1908RF

**FOR CUSTOM SPLITTERS AND MODULES SEE PAGES 14-15
OR CONTACT YOUR FIS GPON REPRESENTATIVE**



MT-81 and MR-81



MTX-480 and MRX-480



Used With COAX Cameras

COAX to Fiber (ST)



Used With COAX Cameras

COAX to Fiber (ST)



Used With PTZ Cameras

Single Channel



8-CHANNEL CONTACT CLOSURE

The American Fibertek 81 Series multiplexes eight channels of dry latching contact closure on one Multimode fiber. A user-selectable feature allows the contact status to be maintained unchanged or reset through power-cycle and loss-of-optical-power. Individual channel LEDs on the transmitter and the receiver units indicate the channel status. Equipment may be ordered as stand alone modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 AFI Card Cages.

PART #	DESCRIPTION	MODE	PRICE
S-MT-81	8-Channel Contact Closure with Fail Safe, TX	Multimode	\$578.00
S-MR-81	8-Channel Contact Closure with Fail Safe, RX	Multimode	578.00

MULTI-PROTOCOL TRANSMISSION SYSTEM

The American Fibertek 480 Series transmits one channel of multi-protocol bi-directional data on one or two Multimode optical fibers. The American Fibertek 480SL Series transmits one channel of multi-protocol bi-directional data on one Singlemode optical fiber. The system is comprised of two transceivers forming a point-to-point communications link. Available switch selectable data formats include: RS485 (2 or 4 wire), RS422, RS232, and Manchester/Bosch. Equipment may be ordered as stand alone modules or rack cards.

PART #	DESCRIPTION	MODE	PRICE
S-MTX-480	Fiber Optic Data Transceiver (2 Fibers), TX	Multimode	\$414.00
S-MRX-480	Fiber Optic Data Transceiver (2 Fibers), RX	Multimode	414.00

SINGLE CHANNEL VIDEO TRANSMITTERS AND RECEIVERS

The American Fibertek M1C and M100C Series transmit one channel of high quality, FM video on one Multimode optical fiber. The American Fibertek M30C Series transmits three channels of high-quality, FM video on three Multimode optical fibers. All units operate at 850 nm and are compatible across the series. Designed to be completely transparent to all camera and monitor manufacturers, the system requires no field adjustments at installation or additional maintenance thereafter. The MTM-1C is a miniature transmitter that is designed to mount directly on the back of a video camera. The M100C Series may be ordered as stand alone low profile modules or rack cards that are mounted in the SR-20D/2 or SR-20R/1 American Fibertek Card Cage. The M30C Series are ordered as rack cards to be mounted in the SR-20D/2 or SR-20R/1.

PART #	DESCRIPTION	MODE	PRICE
S-MTM100C	Single Channel Video Transmitter	Multimode	\$180.00
S-MRM100C	Single Channel Video Receiver	Multimode	180.00
S-MTM300CS	Single Channel Video Transmitter	Singlemode	495.00
S-MRM300CS	Single Channel Video Receiver	Singlemode	315.00
S-MT188	Single Channel Video/Audio Transmitter	Multimode	456.00
S-MR188	Single Channel Video/Audio Receiver	Multimode	456.00
S-MT388SL	Single Channel Video/Audio Transmitter	Singlemode	985.00
S-MR388SL	Single Channel Video/Audio Receiver	Singlemode	760.00

MULTI-CHANNEL VIDEO TRANSMITTERS AND RECEIVERS

All multi-channel video series are designed to transmit 2, 4, 6 or 8 channels of high quality video on one Multimode or Singlemode optical fiber. These systems are designed to be completely transparent and require no field adjustments at installation.

PART #	DESCRIPTION	MODE	PRICE
S-MT220C	Two Channel FM Video Transmitter	Multimode	\$675.00
S-MR220C	Two Channel FM Video Receiver	Multimode	675.00
S-MT404C	Four Channel FM Video Transmitter	Multimode	864.00
S-MR404C	Four Channel FM Video Receiver	Multimode	864.00
S-MT440CSL	Four Channel FM Video Transmitter	Singlemode	1,408.00
S-MR440CSL	Four Channel FM Video Receiver	Singlemode	1,408.00
S-MRT880C	Eight Channel FM Video Transmitter	Multimode	2,534.00
S-MRR880C	Eight Channel FM Video Receiver	Multimode	2,534.00

VIDEO AND BI-DIRECTIONAL MULTI-PROTOCOL DATA TRANSCIVERS

These low cost, low profile video and bi-directional data transceivers are designed to be completely transparent and require no field adjustment at installation. These systems support all RS422, RS485, and "up the coax" data requirements for complete camera and PTZ control. All units are available in 1, 2, 4, 6 or 8 channel models, in either Singlemode or Multimode and can be custom configured for your application.

PART #	DESCRIPTION	MODE	PRICE
S-MTM1485	Single Channel Transmitter with video, RS485, RS422	Multimode	\$659.00
S-MRM1485	Single Channel Receiver with video, RS485, RS422	Multimode	659.00

Call today for current pricing on Multi-Channel Units

AMERICAN FIBERTEK CARD CAGES

PART #	DESCRIPTION	PRICE
S-SR202	Standard Rackmount Card Cage 14 Slot Capacity with 1 Power Supply	\$660.00
S-SR20H2	Redundant Rackmount Card Cage 11 Slot Capacity with Redundancy (2 Power Supplies)	1,300.00

FIS FIBER OPTIC VIDEO TRANSMITTERS AND RECEIVERS

- Electronic-to-photonic signal conversion
- NTSC/PAL signal
- Low-profile stand-a-lone devices
- No field adjustments required
- Transparent to cameras and monitoring equipment



Fiber optic video transmitters and receivers include the ability to convert video signals from coaxial cameras so that they can be transmitted over fiber optic cable. These low-profile stand-a-lone devices can be placed anywhere needed. They require no field adjustments during installation or additional maintenance thereafter. These devices are designed to be transparent to cameras and monitoring equipment regardless of the manufacturer. The receiver includes an indicator light that provides quick verification of system status.



Fiber Optic Transmitter

FIS FIBER OPTIC VIDEO TRANSMITTERS

PART #	DESCRIPTION	FIBER MODE	MAX. DISTANCE	PRICE
S-850TX	Standalone Fiber Optic Video Transmitter	MM 850nm	4 Km	\$95.00
S-1300TX	Standalone Fiber Optic Video Transmitter	MM 1300nm	8 Km	165.00
S-1310TX	Standalone Fiber Optic Video Transmitter	SM 1300nm	20 Km	220.00

FIS FIBER OPTIC VIDEO RECEIVERS

PART #	DESCRIPTION	FIBER MODE	PRICE
S-850RX	Standalone Fiber Optic Video Receiver	MM 850nm	\$125.00
S-1300RX	Standalone Fiber Optic Video Receiver	SM/MM 1300nm	195.00

All include power supply



Fiber Optic Receiver

FIS FIBER OPTIC TRANSMITTER AND RECEIVER KIT

Our single channel 850nm converter is designed to provide a high-performance, low-cost solution for the transmission of video circuits. Connects with ST style connectors.

PART #	DESCRIPTION	FIBER MODE	PRICE
S-MR-850-TR	FIS Standalone Fiber Optic Video Transmitter with Receiver and Power Supply	MM 850nm	\$195.00

SILENT ALARM TRANSMITTERS AND RECEIVERS

Our single channel 850nm converter is designed to provide a high performance, low cost solution for the transmission of Normally Open/Normally Closed contacts (NO/NC) over a single MM fiber. Alarm installers can now take a dry contact closure and wire it to our Fiber Optic transmitter and when the contact alarms it will convert that signal to light and send it to a receiver. This system allows for longer runs using pure light which can't be defeated by jumping.

PART #	DESCRIPTION	PRICE
S-850SATX	Silent Alarm TX with power supply	\$125.00
S-850SARX	Silent Alarm RX with power supply	125.00



S-850SATX



IT IS AS EASY AS SIMPLY MAILING IN YOUR BUSINESS CARD TO THE ADDRESS BELOW:

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2014 Schedule

January 13–14	Tampa, FL
January 15–16	Orlando, FL
January 28–29	Albany, NY
February 10–11	Dallas, TX
February 12–13	Houston, TX
February 25–26	Cincinnati, OH
March 10–11	Kansas City, MO
March 12–13	Indianapolis, IN
March 25–26	Hartford, CT
April 7–8	Jackson, MS
April 9–10	New Orleans, LA
April 22–23	Philadelphia, PA
May 5–6	Los Angeles, CA
May 7–8	Las Vegas, NV
May 20–21	Baltimore, MD
June 3–4	Minneapolis, MN
June 23–25	Brightside
July 14–16	Brightside
August 11–13	Brightside
August 25–27	Brightside
September 15–17	Brightside
September 22–24	Brightside
October 6–8	Brightside
October 20–22	Brightside
November 3–4	Charleston, SC
November 5–6	Atlanta, GA
November 18–19	Philadelphia, PA
December 1–2	Boston, MA
December 3–4	New York City
December 18–19	Detroit, MI

For up-to-date classes go to:

<http://www.fisuniversity.com/schedule.html>



As the nation's leading supplier of fiber optics, FIS founded FIS University in 1995 to meet the ever-growing demand for trained professionals within the fiber optic industry. During the past 15 years, FIS University has trained more than 10,000 professionals in both basic and advanced techniques related to connectorization, testing and fiber optic splicing. Our training staff has more than 20 years of industry experience consisting of both field and network engineering capacities. Call 1-800-500-0347 and ask our training coordinator to reserve your seat at one of our many locations nationwide, at our Adirondack Mountain training complex, Brightside-on-Raquette, or to discuss options to customize your own corporate training.

New certification for FIS Splice-On connector is now included with the FIS University training package. Also, FIS University's Fiber Optic Training offers the Electronics Technicians Association, International (ETA-I) certification as Certified Fiber Optics Installer to all who successfully complete the FIS University Fiber Optic Training Course.

Day One - Fiber Optic Course

Basic Fiber Optic Theory

- Advantages of Fiber Optics
- Components in a Link
- Layers of a Simplex Cable
- Singlemode vs. Multimode
- Multifiber Cable Configurations
- Fiber Optic Connectors

FIS SC Connectorization Workshop

- Cable Preparation
- Curing and Scribing
- Polishing

Microscope Operation & Connector Polish Analysis

Day Two - Advanced Fiber Optics

Fiber Optic Review and Self Test

Power Meter & Light Source Theory and Workshop

- PM and LS Operation
- Hands-On Instruction

OTDR Theory and Workshop

- How an OTDR Works
- Events and Trace Analysis
- Reflections and ORL
- OTDR Workshop

Mechanical Splicing Theory and Workshop

- Assembly of SC Bobtail Quick Term Connector

Fusion Splicing Theory and Workshop

- Hands-On Instruction / Troubleshooting

Cheetah Splice-On Connector Certification

- SOC Installation

Day 1 and 2 Training: \$450.00/Person

Day 1: \$225.00 /Person

Day 2: \$275.00 /Person

CUSTOM AND CORPORATE TRAINING

The FIS Training Department can develop customized trainings to meet your specific needs. Training staff is well versed in a variety of topics related to the fiber and copper cabling industries. Class lengths and topics can be tailored to your specifications. FIS has conducted customized classes for many Fortune 500 companies. The following are just some examples of possible course subjects.

- Troubleshooting and Cleaning
- SMPTE and Tactical Cables
- OTDR
- Equipment Components
- Testing Techniques
- Outside Plant
- Trace Interpretation
- Trace Analysis
- Report Generation
- FTTx

TRAINEE TESTIMONIALS

"..very effective in imparting his vast knowledge of the subject matter."

-Paul Winter, Project Engineer, NBC Universal

"..had an excellent experience at The Brightside. I gained more knowledge on Fiber Optics and the food was phenomenal by James and Diane."

-David Maguire, AFRL/RIOS, USAF



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Make the Switch to LEDs

Reduce Energy Use, Save Money



By offering high quality LED light bulbs and fixtures, Energy Efficient Products, Inc. (EEP), consistently provides solutions for commercial, industrial and municipal lighting projects.

Recommended for "Data Center" lighting



LED FIXTURE

The Energy Efficient Products, Inc., LED light fixture is the only UL-listed, made-in-the-U.S. product of its kind. The fixture is designed exclusively for an LED four-foot tube light, with a G13 bi-pin base. The fixture is designed to house one four-foot tube light, is pre-wired and eliminates the need for a ballast, as is necessary with a fluorescent tube light.

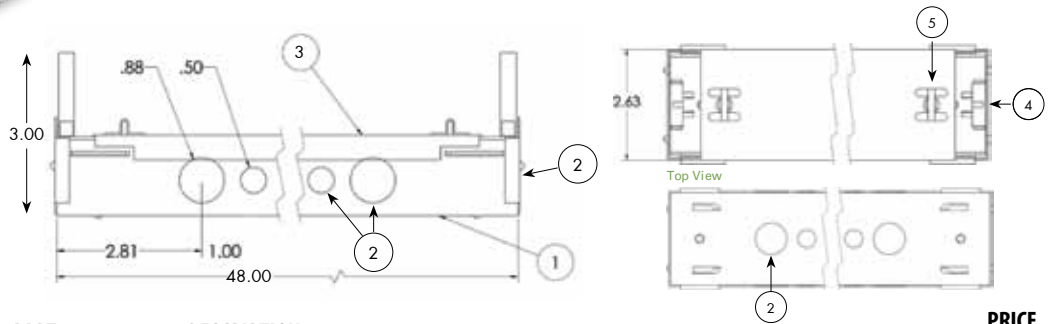
The fixture comes in aluminum, or steel for those fixtures that are painted white or other colors, as ordered.

The fixture has punch outs that allow wiring and mounting through the top of the fixture and punch outs on both ends if back-to-back mounting is required. Also, punch outs on both sides and on both ends allow for side-to-side mounting.

Fixture Specifications Interior Use Only, For LED Bulbs Only

Material: 22-Gauge Aluminum or 22-Gauge Steel
Dimensions: Length 48.125", Width 2.63", Depth 3"
Weight: Aluminum - 1.44 lb., without bulb; Steel - 4.5 lb., without bulb
Voltage Range: 85V to 277V
Powder Coat Colors: Aluminum (no coat), White, Eggshell, Blue, Gray Green. Other colors available upon request.

- ① Aluminum or Steel Base
 - ② Punch Outs (14 places)
 - ③ Cover
 - ④ Socket
 - ⑤ Base Cover Release
- Dimensions shown in inches



PART #	DESCRIPTION	PRICE W/ Light
EEP-110UL-4FX-1A	Aluminum	\$49.99
EEP-110UL-4FX-1S	Steel	59.99
EEP-110UL-4FX-1SW	White	59.99
EEP-110UL-4FX-1SE	Eggshell	59.99
EEP-110UL-4FX-1SB	Blue	59.99
EEP-110UL-4FX-1SG	Gray Green	59.99

T8 4-FOOT TUBE LIGHT G13 BI-PIN BASE

Replacing conventional 85-277 volt fluorescent-style light bulbs with high-tech LED lights is as easy as swapping the light bulb. This LED tube light does not use a ballast and requires disconnection of the ballast, except in one bulb per ballast fixtures. (2ft and 8ft tubes available upon request)

PART #	DESCRIPTION	PRICE
EEP-110UL-W34-4	20W Replacing 34-40W Color Temp: Warm	\$30.91
EEP-110UL-D34-4	20W Replacing 34-40W Color Temp: Daylight	30.91
EEP-110UL-C34-4	20W Replacing 34-40W Color Temp: Cool	30.91
EEP-110DLC-D34-4	18W Replacing 34-40W Color Temp: Daylight	36.48

METAL HALIDE REPLACEMENT BULBS

Metal Halide replacement bulbs provide vibrant light to keep your facility safe and well lit. These high-powered lights provide ample lighting while using just a fraction of the wattage of traditional style bulbs. LED bulbs replacements can be used on the edge of a road, in a parking lot or any high-bay fixture. When replacing old-style commercial bulbs you must simply disconnect the ballast from the fixture. Various color temperatures are available.

PART #	DESCRIPTION	PRICE
EEP-110-C100-SLO	27W LED to Replace 100W Color Temp: Cool	\$106.65
EEP-110-C175-SLO	36W LED to Replace 100W Color Temp: Cool	119.99
EEP-277-C250-SLO	54W LED to Replace 100W Color Temp: Cool	221.33
EEP-277-C400-SLO	80W LED to Replace 100W Color Temp: Cool	382.23

LED ROUND BULBS (A19 TYPE) E26

Directly replace standard 110 volt incandescent or CFL light bulbs with these state-of-the-art LED light bulbs. LED bulbs provide the same brightness as the incandescent bulbs with the wattages shown below. Simply swap the light bulb - no additional accessories needed. These LED bulbs use up to ten times less electricity than conventional incandescent lights and last up to 25 years or 50,000 hours.

PART #	DESCRIPTION	PRICE
EEP-110ES-W60RD	6W Replacing 60W Color Temp: Warm	\$18.91
EEP-110ES-W65RD	8W Replacing 65W Color Temp: Warm	22.40
EEP-110ES-W60	6W Replacing 60W 360 Degree Beam spread Color Temp: Warm	30.24
EEP-110ES-W80	12W Replacing 80W 360 Degree Beam spread Color Temp: Warm	33.96

LED SPOT LIGHTS AND FLOOD LIGHTS

LED spot and flood lights are easy to replace with direct retrofit- no disconnection required. LED spot and floods are 10 times more efficient than halogen/incandescent bulbs.

PART #	DESCRIPTION	PRICE
EEP-110ES-25W55-P20D	8W Replacing 55W 25 degree beam angle Color Temp: Warm	\$27.69
EEP-110ES-25W75-P30D	10W Replacing 65W 25 degree beam angle Color Temp: Warm	33.92
EEP-110ES-25W125-P38D	20W Replacing 125W 25 degree beam angle Color Temp: Warm	49.36
EEP-110ES-W55-F20D	8W Replacing 55W Color Temp: Warm	27.69
EEP-110ES-W75-F30D	14W Replacing 75W Color Temp: Warm	33.92
EEP-110ES-W125-F40D	20W Replacing 125W Color Temp: Warm	51.19

MR 16 BASE SPOTLIGHT

PART #	DESCRIPTION	PRICE
EEP-12-W46-M16D	6W Replacing 45W 25 degree beam angle Color Temp: Warm	\$15.83

EEP'S STANDARD 5-YEAR WARRANTY

Energy Efficient Products, Inc. (EEP) warrants that on the date of shipment all LED products supplied by EEP are free from defects in material and workmanship under normal use and service. EEP's exclusive obligation under this warranty is, at EEP's option, to repair or replace the defective goods (FOB origin) or to refund to Buyer the purchase price paid for the defective goods. This warranty is made on the condition that Buyer gives EEP immediate written notice of any defect (in no event later than five (5) years from the date of shipment), that Buyer gives EEP access to the goods and Buyer's relevant records and data, and that EEP's inspection reveals that Buyer's claim is valid under the terms of this warranty. No returns will be accepted by EEP unless accompanied by EEP's Return Material Authorization.

This warranty applies to the goods only and not to any combination or assembly of the goods or to any services of EEP. The warranty herein described is made in lieu of all other warranties, express or implied, including but not limited to the implied warranties of the merchantability and fitness for a particular purpose which warranties are hereby expressly disclaimed. EEP shall not be liable to the buyer or any other person under any legal theory, including but not limited to negligence or strict liability, for any injury or for any direct or consequential damages sustained or incurred by reason of the use of any of EEP's products. In no event will EEP's liability exceed the purchase price paid to EEP for goods.



“ When we began construction of a new 11,000-square foot warehouse, our electrical contractor highly recommended LEDs from Energy Efficient Products. Because the LED bulbs are so efficient our utility bills are a fraction of what they would have been with traditional, energy-hungry fluorescent lights. With LEDs, our return on investment will be realized in slightly more than one year, and the bulbs will last up to 25 years and require no maintenance. I can now use those savings to invest in our growing business. ”

Brian Mohar, President

The Light Connection, manufacturer of fiber optic cable and tubing, located in Central New York.

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TRAINING

FIS SATISFACTION GUARANTEED POLICY

If you are not 100% satisfied with your order, call toll-free to arrange for an exchange or return of goods. Any stock items contained in this catalog may be returned upon your prompt inspection of received goods.

Any discrepancies with an order must be reported to FIS within 24 hours of receipt. • Returned Merchandise Authorization (RMA) numbers must be requested within 3 days of receipt of your product and returned to FIS head office within 7 days from receipt of goods. • All product returned must be marked with an FIS RMA number and be new and in unopened, full shipping unit quantities. Credit cannot be issued without an FIS authorized RMA. • Custom made and uncataloged items will not be accepted for return. • FIS reserves the right to charge a re-stocking fee.

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TERMS AND CONDITIONS

Warranty Overview

Fiber Instrument Sales Inc, hereafter referred to as FIS, warrants that a product will be free from defects in materials and workmanship and conforms to FIS Specifications. The warranty period for a product is a specified, fixed period commencing on the customer's date of purchase. A valid proof of purchase may be required. If the customer does not have a valid proof of purchase, the warranty period will be measured from the date of sale indicated within FIS records. If, during the warranty period, the product is not in good working order, FIS may, at its option, repair or replace it at no additional charge, except as is set forth below.

The warranty period for products sold and manufactured by FIS is as follows:

- All products, excluding test and fiber splicing equipment: 30 Days
- FIS manufactured test and fiber splicing equipment: 1 year
- Distributed test and fiber splicing equipment: Original manufacturer's warranty applies

Items Not Covered by Warranty

FIS does not warrant uninterrupted or error-free operation of product or equipment. Unless specified otherwise, FIS references the original equipment manufacturer's warranty and its subsequent requirements on non-Fiber Instrument Sales Inc. products. Any technical or other support provided for a product under warranty, such as assistance via telephone with "how-to" questions and those regarding use, setup and installation, will be provided WITHOUT WARRANTIES OF ANY KIND.

Extent of Warranty

The warranty does not cover the repair or exchange of a product resulting from misuse, accident, modification, unsuitable physical or operating environment, improper maintenance by the customer, or failure caused by a product for which FIS is not responsible. The warranty may be voided by removal or alteration of product, parts, security or identification labels.

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